Measurement

Customary – Length

4th through 8th Grades

10 Day Unit

of 60 Day Measurement Program

5 – 10 Minutes Per Day

Customary – Length Section

4th - 8th Grade Five-Minute Daily Measurement Warm-Ups

This 10 day program (per section) is intended to provide basic skill levels in converting and understanding magnitudes in the following measurement areas/sections:

1.) ***Customary Measurement (Length): inches, feet, yards and miles.***

2.) Customary Measurement (Capacity – Volume): ounces, cups, pints, quarts and gallons.

3.) Customary Measurement (Weight): ounces (dry), pounds and tons.

4.) Metric Measurement (Length): millimeters (mm), centimeters (cm), meters (m) and kilometers (km)

5.) Metric Measurement (Capacity): milliliters (ml), Liters (L) and Kiloliters (kl)

6.) Metric Measurement (Mass): milligram (mg), grams (g) and kilograms (kg)

The warm-ups are designed so the children can readily pick them up as they enter the classroom or the warm-ups are distributed normally through classroom procedures. The teacher must make minimal copies, since the sheets may be separated into 3 student sheets per page. Hence, with 24 students – only 8 Xerox copies need to be made for an entire classroom. An answer key is provided at the end of the packet.

Section 1.) Customary Measurement (Length): inches, feet, yards and miles are included in this instructional packet.

Customary Measurements in Length are challenging for many 5th - 8th graders due to the fractional elements of an inch. Consequently, when students begin working with rulers at the onset of a new school year, they should primarily use a ruler for whole numbers only (and possibly halves and quarters, if the students are ready). However, a high level numerate understanding of converting and working with these customary distances is highly beneficial to a student when they begin using a ruler to measure distances as well as when the measurement terms and computations appear in word problem exercises.

It is recommended that the teacher use visual aids to assist students (a ruler and a yard stick) to assist them in visualizing the magnitude or length of a foot or a yard (classroom floors are often laid with 12 inch by 12 inch square plastic tiles – distances of a foot and a yard are easily shown to students using the tiles on the floor as a reference). An inch can be displayed to students as the approximate 'middle distance' of the index finger as the finger is curled toward the palm. Also, when explaining the distance of a mile, it is recommended that a reference distance be chosen that students are familiar (usually the distance from the school to a known building or landmark).

When students struggle with certain problem types in the daily warm-ups, it is a clear indication that the students need more practice with that concept, not less. It is advisable for the teacher to present quick practice examples in math class or during transition periods until students master that concept or problem type.

It is also recommended to use these short daily measurements in conjunction with a Space Repetition System classroom instructional methodology.

Name:_____

Daily Math 5 minute Review on Measurement

1.) Inches in a foot _____

2.) Inches in a yard _____

3.) Feet in a yard _____

4.) Feet in a mile _____

5.) About how tall is the door in feet? _____

6.) About how many feet is the length of a bus? _____

7.) 2 feet = _____ inches

8.) 24 inches = _____ feet

9.) 6 feet = _____ yards

10.) 2 yards = _____ feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) Inches in a foot _____

2.) Inches in a yard _____

3.) Feet in a yard _____

4.) Feet in a mile _____

5.) About how tall is the door in feet? _____

6.) About how many feet is the length of a bus? _____

7.) 2 feet = _____ inches

8.) 24 inches = _____ feet

9.) 6 feet = _____ yards

10.) 2 yards = _____ feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) Inches in a foot _____

2.) Inches in a yard _____

3.) Feet in a yard _____

4.) Feet in a mile _____

5.) About how tall is the door in feet? _____

6.) About how many feet is the length of a bus? _____

7.) 2 feet = _____ inches

8.) 24 inches = _____ feet

9.) 6 feet = _____ yards

10.) 2 yards = _____ feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) Inches in a foot _____

2.) Inches in a yard _____

3.) Feet in a yard _____

4.) Feet in a mile _____

5.) About how tall is the teacher's desk in feet? _____

6.) About how many feet is the length of a car? _____

7.) 3 feet = _____ inches

8.) 36 inches = _____ feet

9.) 9 feet = _____ yards

10.) 3 yards = _____ feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) Inches in a foot _____

2.) Inches in a yard _____

3.) Feet in a yard _____

4.) Feet in a mile _____

5.) About how tall is the teacher's desk in feet? _____

6.) About how many feet is the length of a car? _____

7.) 3 feet = _____ inches

8.) 36 inches = _____ feet

9.) 9 feet = _____ yards

10.) 3 yards = _____ feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) Inches in a foot _____

2.) Inches in a yard _____

3.) Feet in a yard _____

4.) Feet in a mile _____

5.) About how tall is the teacher's desk in feet? _____

6.) About how many feet is the length of a car? _____

7.) 3 feet = _____ inches

8.) 36 inches = _____ feet

9.) 9 feet = _____ yards

10.) 3 yards = _____ feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) Inches in a yard _____

2.) Inches in a foot _____

3.) Feet in a mile _____

4.) Feet in a yard _____

5.) About how tall is the white or black board in feet? _____

6.) About how many feet tall are you? _____

7.) 4 feet = _____ inches

8.) 24 inches = _____ feet

9.) 6 feet = _____ yards

10.) 3 yards = _____ feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) Inches in a yard _____

2.) Inches in a foot _____

3.) Feet in a mile _____

4.) Feet in a yard _____

5.) About how tall is the white or black board in feet? _____

6.) About how many feet tall are you? _____

7.) 4 feet = _____ inches

8.) 24 inches = _____ feet

9.) 6 feet = _____ yards

10.) 3 yards = _____ feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) Inches in a yard _____

2.) Inches in a foot _____

3.) Feet in a mile _____

4.) Feet in a yard _____

5.) About how tall is the white or black board in feet? _____

6.) About how many feet tall are you? _____

7.) 4 feet = _____ inches

8.) 24 inches = _____ feet

9.) 6 feet = _____ yards

10.) 3 yards = _____ feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) Inches in a yard _____

2.) Inches in a foot _____

3.) Feet in a mile _____

4.) Feet in a yard _____

5.) About how **wide** is the sidewalk in feet? _____

6.) About how **tall** in feet is the classroom ceiling? _____

7.) 2 miles = _____feet

8.) 36 inches = _____ feet

9.) 12 feet = _____yards

10.) 6 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) Inches in a yard _____

2.) Inches in a foot _____

3.) Feet in a mile _____

4.) Feet in a yard _____

5.) About how **wide** is the sidewalk in feet? _____

6.) About how **tall** in feet is the classroom ceiling? _____

7.) 2 miles = _____feet

8.) 36 inches = _____ feet

9.) 12 feet = _____yards

10.) 6 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) Inches in a yard _____

2.) Inches in a foot _____

3.) Feet in a mile _____

4.) Feet in a yard _____

5.) About how **wide** is the sidewalk in feet? _____

6.) About how **tall** in feet is the classroom ceiling? _____

7.) 2 miles = _____feet

8.) 36 inches = _____ feet

9.) 12 feet = _____yards

10.) 6 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) 36 inches = _____ feet

2.) _____ inches = 5 feet

3.) 5 yards = _____ feet

4.) _____ miles = 10,560 feet

5.) About how high is the window in feet? _____

6.) About how tall is your teacher in feet? _____

7.) 2 miles = _____feet

8.) 48 inches = _____ feet

9.) 9 feet = _____yards

10.) 2 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) 36 inches = _____ feet

2.) _____ inches = 5 feet

3.) 5 yards = _____ feet

4.) _____ miles = 10,560 feet

5.) About how high is the window in feet? _____

6.) About how tall is your teacher in feet? _____

7.) 2 miles = _____feet

8.) 48 inches = _____ feet

9.) 9 feet = _____yards

10.) 2 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) 36 inches = _____ feet

2.) _____ inches = 5 feet

3.) 5 yards = _____ feet

4.) _____miles = 10,560 feet

5.) About how high is the window in feet? _____

6.) About how tall is your teacher in feet? _____

7.) 2 miles = _____feet

8.) 48 inches = _____ feet

9.) 9 feet = _____yards

10.) 2 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) 36 inches = _____ feet

2.) _____ inches = 5 feet

3.) 6 yards = _____ feet

4.) _____ miles = 15,840 feet

5.) What is the width of the classroom window in feet? _____

6.) What is the width of your desk in INCHES? _____

7.) 2 miles = _____feet

8.) 48 inches = _____ feet

9.) _____ yards = 18 feet

10.) 5 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) 36 inches = _____ feet

2.) _____ inches = 5 feet

3.) 6 yards = _____ feet

4.) _____ miles = 15,840 feet

5.) What is the width of the classroom window in feet? _____

6.) What is the width of your desk in INCHES? _____

7.) 2 miles = _____feet

8.) 48 inches = _____ feet

9.) _____ yards = 18 feet

10.) 5 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) 36 inches = _____ feet

2.) _____ inches = 5 feet

3.) 6 yards = _____ feet

4.) _____ miles = 15,840 feet

5.) What is the width of the classroom window in feet? _____

6.) What is the width of your desk in INCHES? _____

7.) 2 miles = _____feet

8.) 48 inches = _____ feet

9.) _____ yards = 18 feet
_____yards

10.) 5 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) 72 inches = _____ feet

2.) _____ inches = 3 feet

3.) 10 yards = _____ feet

4.) _____ mile = 5,280 feet

5.) What is the length car in YARDS? _____

6.) What is the height of the classroom ceiling in FEET? _____

7.) ½ foot =_____inches

8.) 1½ foot =_____inches

9.) _____ yards = 21 feet

10.) 8 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) 72 inches = _____ feet

2.) _____ inches = 3 feet

3.) 10 yards = _____ feet

4.) _____ miles = 5,280 feet

5.) What is the length car in YARDS? _____

6.) What is the height of the classroom ceiling in FEET? _____

7.) ½ foot =_____inches

8.) 1½ foot =_____inches

9.) _____ yards = 21 feet

10.) 8 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) 72 inches = _____ feet

2.) _____ inches = 3 feet

3.) 10 yards = _____ feet

4.) _____ miles = 5,280 feet

5.) What is the length car in YARDS? _____

6.) What is the height of the classroom ceiling in FEET? _____

7.) ½ foot =_____inches

8.) 1½ foot =_____inches

9.) _____ yards = 21 feet

10.) 8 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) 18 inches = _____ foot

2.) 14 inches = ___ foot ___ inches

3.) 9 yards = _____ feet

4.) _____ miles = 10,560 feet

5.) What is the length of a bus in YARDS? _____

6.) 1 foot 4 inches = _____inches

7.) 1½ foot =_____inches

8.) ½ foot =_____inches

9.) _____ yards = 24 feet

10.) 2 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) 18 inches = _____ foot

2.) 14 inches = ___ foot ___ inches

3.) 9 yards = _____ feet

4.) _____ miles = 10,560 feet

5.) What is the length of a bus in YARDS? _____

6.) 1 foot 4 inches = _____inches

7.) 1½ foot =_____inches

8.) ½ foot =_____inches

9.) _____ yards = 24 feet

10.) 2 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) 18 inches = _____ foot

2.) 14 inches = ___ foot ___ inches

3.) 9 yards = _____ feet

4.) _____ miles = 10,560 feet

5.) What is the length of a bus in YARDS? _____

6.) 1 foot 4 inches = _____inches

7.) 1½ foot =_____inches

8.) ½ foot =_____inches

9.) _____ yards = 24 feet

10.) 2 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) 30 inches = _____ feet

2.) 17 inches = ___ foot ___ inches

3.) 7 yards = _____ feet

4.) _____ miles = 21,120 feet

5.) What is the height of your teacher in inches? _____

6.) 1 foot 8 inches = _____inches

7.) 2½ foot =_____inches

8.) ½ foot =_____inches

9.) _____ yards = 18 feet

10.) 3 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) 30 inches = _____ feet

2.) 17 inches = ___ foot ___ inches

3.) 7 yards = _____ feet

4.) _____ miles = 21,120 feet

5.) What is the height of your teacher in inches? _____

6.) 1 foot 8 inches = _____inches

7.) 2½ foot =_____inches

8.) ½ foot =_____inches

9.) _____ yards = 18 feet

10.) 3 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) 30 inches = _____ feet

2.) 17 inches = ___ foot ___ inches

3.) 7 yards = _____ feet

4.) _____ miles = 21,120 feet

5.) What is the height of your teacher in inches? _____

6.) 1 foot 8 inches = _____inches

7.) 2½ foot =_____inches

8.) ½ foot =_____inches

9.) _____ yards = 18 feet

10.) 3 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) 18 inches = _____ feet

2.) 23 inches = ___ foot ___ inches

3.) 25 inches = ___ feet ___ inches

4.) 14 inches = ___ foot ___ inches

5.) 2 feet 4 inches _____ inches

6.) 1 foot 8 inches = _____inches

7.) 1½ foot =_____inches

8.) ½ foot =_____inches

9.) _____ yards = 15 feet

10.) 2 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) 18 inches = _____ feet

2.) 23 inches = ___ foot ___ inches

3.) 25 inches = ___ feet ___ inches

4.) 14 inches = ___ foot ___ inches

5.) 2 feet 4 inches _____ inches

6.) 1 foot 8 inches = _____inches

7.) 1½ foot =_____inches

8.) ½ foot =_____inches

9.) _____ yards = 15 feet

10.) 2 yards = _____feet

Name:_____

Daily Math 5 minute Review on Measurement

1.) 18 inches = _____ feet

2.) 23 inches = ___ foot ___ inches

3.) 25 inches = ___ feet ___ inches

4.) 14 inches = ___ foot ___ inches

5.) 2 feet 4 inches _____ inches

6.) 1 foot 8 inches = _____inches

7.) 1½ foot =_____inches

8.) ½ foot =_____inches

9.) _____ yards = 15 feet

10.) 2 yards = _____feet

Answer Key

Measurement

Customary – Length

4th through 8th Grades

10 Day Unit

of 60 Day Measurement Program

5 – 10 Minutes Per Day

Customary Units – Length – ANSWER KEY

Customary Units – Length Name: Answer Key - Day 1

Daily Math 5 minute Review on Measurement

1.) Inches in a foot _12 inches_ (show ruler or standard tile (12 inch) on floor as reference)

2.) Inches in a yard 36 inches (have a yard stick for reference)

3.) Feet in a yard 3 feet

4.) Feet in a mile 5,280 feet (distance reference to a place the children know and can relate)

5.) About how tall is the door in feet? 7 to 8 feet

6.) About how many feet is the length of a bus? 30 to 35 feet

7.) 2 feet = _24_ inches
0, 12, 24, 36, 48… (Use skip counting if can't multiply)

8.) 24 inches = _2_ feet

9.) 6 feet = _2_ yards
0, 3, 6, 9, 12… - 2 yards

10.) 2 yards = _6_ feet

Customary Units – Length Name: Answer Key - Day 2

Daily Math 5 minute Review on Measurement

1.) Inches in a foot _12 inches_ (show ruler or standard tile (12 inch) on floor as reference)

2.) Inches in a yard 36 inches (have a yard stick for reference)

3.) Feet in a yard 3 feet

4.) Feet in a mile 5,280 feet (distance reference to a place the children know and can relate)

5.) About how tall is the teacher's desk in feet? 3 feet

6.) About how many feet is the length of a car? 10 to 13 feet

7.) 3 feet = _36_ inches
0, 12, 24, 36, 48… (Use skip counting if can't multiply)

8.) 36 inches = _3_ feet

9.) 9 feet = _3_ yards
0, 3, 6, 9, 12… - 3 yards

10.) 3 yards = _9_ feet

Customary Units – Length Name: Answer Key - Day 3

Daily Math 5 minute Review on Measurement

1.) Inches in a yard _36 inches_ (show ruler or standard tile (12 inch) on floor as reference)

2.) Inches in a foot 12 inches (have a yard stick for reference)

3.) Feet in a mile 5,280 feet

4.) Feet in a yard 3 feet (distance reference to a place the children know and can relate)

5.) About how tall is the white or black board in feet? 3 feet

6.) About how many feet tall are you? 4 or 5 feet

7.) 4 feet = _48_ inches
0, 12, 24, 36, 48, 60… (Use skip counting if can't multiply)

8.) 24 inches = _2_ feet

9.) 6 feet = _2_ yards
0, 3, 6, 12, 15, 18…

10.) 3 yards = _9_ feet

Customary Units – Length – ANSWER KEY

Customary Units – Length Name: Answer Key - Day 4

Daily Math 5 minute Review on Measurement

1.) Inches in a yard _36 inches_

2.) Inches in a foot 12 inches

3.) Feet in a mile 5,280 feet

4.) Feet in a yard 3 feet

5.) About how **wide** is the sidewalk in feet? _4 or 5 feet_

6.) About how **tall** in feet is the classroom ceiling? 10 ft.- varies

7.) 2 miles = _10,560_ inches
0; 5,280; 10,560…
(Use skip counting or repeated addition if can't multiply)

8.) 36 inches = _3_ feet

9.) 12 feet = __4__yards
0, 3, 6, 12, 15, 18…

10.) 6 yards = _18_feet

Customary Units – Length Name: Answer Key - Day 5

Daily Math 5 minute Review on Measurement

1.) 36 inches = ___3___ feet

2.) __60___ inches = 5 feet

3.) 5 yards = __15__ feet

4.) __2__miles = 10,560 feet

5.) About how high is the window in feet? _3 to 6 feet_

6.) About how tall is your teacher in feet? _varies_

7.) 2 miles = _10,560__feet

8.) 48 inches = __4___ feet

9.) 9 feet = ___3__yards

10.) 2 yards = __6__feet

Customary Units – Length Name: Answer Key - Day 6

Daily Math 5 minute Review on Measurement

1.) 36 inches = ____3____ feet

2.) ___60___ inches = 5 feet

3.) 6 yards = __18__ feet

4.) ___3__ miles = 15,840 feet

5.) What is the width of the classroom window in feet? varies

6.) What is the width of your desk in INCHES? _varies _

7.) 2 miles = _10,560_feet

8.) 48 inches = __4__ feet

9.) __6__ yards = 18 feet

10.) 5 yards = __15__feet

Customary Units – Length – ANSWER KEY

Customary Units – Length Name: Answer Key - Day 7

Daily Math 5 minute Review on Measurement

1.) 72 inches = ____6____ feet

2.) ___36___ inches = 3 feet

3.) 10 yards = __30__ feet

4.) __1___ mile = 5,280 feet

5.) What is the length car in YARDS? __4 yards__

6.) What is the height of the classroom ceiling in FEET? _10 ft_

7.) ½ foot =___6____inches

1 foot = 12 in; hence, ½ foot = 6 in.

8.) 1½ foot =___18___inches

1 foot = 12 in; hence, ½ foot = 6 in. – (6 + 12 = 18 in.)

9.) __7__ yards = 21 feet

10.) 8 yards = __24__feet

Customary Units – Length Name: Answer Key - Day 8

Daily Math 5 minute Review on Measurement

1.) 18 inches = _1 ½ ____ foot

2.) 14 inches = _1_ foot _2_ inches

3.) 9 yards = _27_ feet

4.) ___2__ miles = 10,560 feet

5.) What is the length of a bus in YARDS? _10 to 12_

6.) 1 foot 4 inches = _16__inches (12 + 4 = 16)

7.) 1½ foot =___18___inches

8.) ½ foot =___6___inches

9.) __8__ yards = 24 feet

10.) 2 yards = __6__feet

Customary Units – Length Name: Answer Key - Day 9

Daily Math 5 minute Review on Measurement

1.) 30 inches = ___2 ½ ___ feet

2.) 17 inches = _1_ foot _5_ inches

3.) 7 yards = __21__ feet

4.) ___4__ miles = 21,120 feet

5.) What is the height of your teacher in inches? _varies_

6.) 1 foot 8 inches = _20__inches

7.) 2½ foot =__30____inches

8.) ½ foot =___6___inches

9.) __6__ yards = 18 feet

10.) 3 yards = __9__feet

Customary Units – Length – ANSWER KEY

Customary Units – Length Name: Answer Key - Day 10

Daily Math 5 minute Review on Measurement

1.) 18 inches = ____1 ½___ feet

2.) 23 inches = _1_ foot _11_ inches

3.) 25 inches = _2_ feet _1_ inches

4.) 14 inches = _1_ foot _2_ inches

5.) 2 feet 4 inches _28_ inches

6.) 1 foot 8 inches = _20__inches

7.) 1½ foot =___18___inches

8.) ½ foot =____6___inches

9.) __5__ yards = 15 feet

10.) 2 yards = ___6__feet

Measurement

Customary – Capacity

4th through 8th Grades

10 Day Unit

of 60 Day Measurement Program

5 – 10 Minutes Per Day

Customary – Capacity Section

4th - 8th Grade Five-Minute Daily Measurement Warm-Ups

This 10 day program (per section) is intended to provide basic skill levels in converting and understanding magnitudes in the following measurement areas/sections:

1.) Customary Measurement (Length): inches, feet, yards and miles.

2.) <u>Customary Measurement (Capacity – Volume): ounces (fluid), cups, pints, quarts and gallons.</u>

3.) Customary Measurement (Weight): ounces (dry), pounds and tons.

4.) Metric Measurement (Length): millimeters (mm), centimeters (cm), meters (m) and kilometers (km)

5.) Metric Measurement (Capacity): milliliters (ml), Liters (L) and Kiloliters (kl)

6.) Metric Measurement (Mass): milligram (mg), grams (g) and kilograms (kg)

The warm-ups are designed so the children can readily pick them up as they enter the classroom or the warm-ups are distributed normally through classroom procedures. The teacher must make minimal copies, since the sheets may be separated into 3 student sheets per page. Hence, with 24 students – only 8 Xerox copies need to be made for an entire classroom. An answer key is provided at the end of the packet.

Section 2.) Customary Measurement (Capacity - Volume): ounces (fluid), cups, pints, quarts and gallons are <u>included</u> in this instructional packet.

Customary Measurements in capacity are extremely challenging for many 5th – 8th graders due to the lack of familiarity with the sizes of the units (e.g. cups versus pints versus quarts). Consequently, students should have everyday objects that represent each of these objects volume amounts to assist them in memorizing relative sizes and fluid object quantities. A standard milk carton from the school cafeteria generally has the capacity of 1 cup or 8 fluid ounces. This is always a very good starting point. Using two milk cartons, students can memorize a pint is 2 cups or 16 fluid ounces. Four quarts is equivalent to 1 gallon (quatro may be referenced in Spanish for four, but the word 'quart' is derived from 'quarta' in Latin or 'quarte' from Old French meaning one-fourth). With a quick daily review of these amounts beginning with the introduction of cups - repetitively each day until students soon master these amounts. There is also a Mr. Gallon Man visual PDF that can easily be made into a poster that may visually assist students in learning these interconnected relationships.

When students struggle with certain problem types in the daily warm-ups, it is a clear indication that the students need more practice with that concept, not less. It is advisable for the teacher to present quick practice examples in math class or during transition periods until students master that concept or problem type.

It is also recommended to use these short daily measurements in conjunction with a Space Repetition System classroom instructional methodology.

Name:_____

Daily Math 5 minute Review on Measurement

1.) Ounces in a cup _____

2.) Ounces in a pint _____

3.) Ounces in a quart _____

4.) Ounces in a gallon _____

7.) 1 cup = _____ ounces

8.) 2 cups = _____ ounces

9.) 2 cups = _____ pint

10.) 1 pint = _____ounces

5.) What is the capacity **(ounces)** of your milk carton at breakfast in the cafeteria? _____

6.) What is the capacity **(cups)** of your milk carton at breakfast in the cafeteria? _____

Name:_____

Daily Math 5 minute Review on Measurement

1.) Ounces in a cup _____

2.) Ounces in a pint _____

3.) Ounces in a quart _____

4.) Ounces in a gallon _____

7.) 1 cup = _____ ounces

8.) 2 cups = _____ ounces

9.) 2 cups = _____ pint

10.) 1 pint = _____ounces

5.) What is the capacity **(ounces)** of your milk carton at breakfast in the cafeteria? _____

6.) What is the capacity **(cups)** of your milk carton at breakfast in the cafeteria? _____

Name:_____

Daily Math 5 minute Review on Measurement

1.) Ounces in a cup _____

2.) Ounces in a pint _____

3.) Ounces in a quart _____

4.) Ounces in a gallon _____

7.) 1 cup = _____ ounces

8.) 2 cups = _____ ounces

9.) 2 cups = _____ pint

10.) 1 pint = _____ounces

5.) What is the capacity **(ounces)** of your milk carton at breakfast in the cafeteria? _____

6.) What is the capacity **(cups)** of your milk carton at breakfast in the cafeteria? _____

Name:_____

Daily Math 5 minute Review on Measurement

1.) Ounces in a cup _____

2.) Ounces in a pint _____

3.) Ounces in a quart _____

4.) Ounces in a gallon _____

7.) 1 cup = _____ ounces

8.) 2 cups = _____ ounces

9.) 2 cups = _____ pint

10.) 1 quart = _____pints

5.) What is the capacity **(ounces)** of your milk carton at breakfast in the cafeteria? _____

6.) What is the capacity **(cups)** of your milk carton at breakfast in the cafeteria? _____

Name:_____

Daily Math 5 minute Review on Measurement

1.) Ounces in a cup _____

2.) Ounces in a pint _____

3.) Ounces in a quart _____

4.) Ounces in a gallon _____

7.) 1 cup = _____ ounces

8.) 2 cups = _____ ounces

9.) 2 cups = _____ pint

10.) 1 quart = _____pints

5.) What is the capacity **(ounces)** of your milk carton at breakfast in the cafeteria? _____

6.) What is the capacity **(cups)** of your milk carton at breakfast in the cafeteria? _____

Name:_____

Daily Math 5 minute Review on Measurement

1.) Ounces in a cup _____

2.) Ounces in a pint _____

3.) Ounces in a quart _____

4.) Ounces in a gallon _____

7.) 1 cup = _____ ounces

8.) 2 cups = _____ ounces

9.) 2 cups = _____ pint

10.) 1 quart = _____pints

5.) What is the capacity **(ounces)** of your milk carton at breakfast in the cafeteria? _____

6.) What is the capacity **(cups)** of your milk carton at breakfast in the cafeteria? _____

Name:_____

Daily Math 5 minute Review on Measurement

1.) Ounces in a cup _____

2.) Ounces in a pint _____

3.) Ounces in a quart _____

4.) Ounces in a gallon _____

7.) 1 cup = _____ ounces

8.) 2 cups = _____ ounces

9.) 2 cups = _____ pint

10.) 1 quart = _____pints

5.) What is the capacity **(ounces)** of your milk carton at breakfast in the cafeteria? _____

6.) What is the capacity **(cups)** of your milk carton at breakfast in the cafeteria? _____

Name:_____

Daily Math 5 minute Review on Measurement

1.) Ounces in a cup _____

2.) Ounces in a pint _____

3.) Ounces in a quart _____

4.) Ounces in a gallon _____

7.) 1 cup = _____ ounces

8.) 2 cups = _____ ounces

9.) 2 cups = _____ pint

10.) 1 quart = _____pints

5.) What is the capacity **(ounces)** of your milk carton at breakfast in the cafeteria? _____

6.) What is the capacity **(cups)** of your milk carton at breakfast in the cafeteria? _____

Name:_____

Daily Math 5 minute Review on Measurement

1.) Ounces in a cup _____

2.) Ounces in a pint _____

3.) Ounces in a quart _____

4.) Ounces in a gallon _____

7.) 1 cup = _____ ounces

8.) 2 cups = _____ ounces

9.) 2 cups = _____ pints

10.) 1 pint = _____ounces

5.) What is the capacity **(ounces)** of your milk carton at breakfast in the cafeteria? _____

6.) What is the capacity **(cups)** of your milk carton at breakfast in the cafeteria? _____

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 cup = _____ ounces

2.) 1 quart = _____ ounces

3.) 1 gallon = _____ quarts

4.) 1 gallon = _____ ounces

5.) How many **ounces** are in the milk plastic jug your mother purchases the store? _____

6.) How many **quarts** are in the milk plastic jug your mother purchases the store? _____

7.) 2 cups = _____ ounces

8.) 4 quarts = _____ gallon

9.) 2 cups = _____ pint

10.) 1 pint = _____ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 cup = _____ ounces

2.) 1 quart = _____ ounces

3.) 1 gallon = _____ quarts

4.) 1 gallon = _____ ounces

5.) How many **ounces** are in the milk plastic jug your mother purchases the store? _____

6.) How many **quarts** are in the milk plastic jug your mother purchases the store? _____

7.) 2 cups = _____ ounces

8.) 4 quarts = _____ gallon

9.) 2 cups = _____ pint

10.) 1 pint = _____ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 cup = _____ ounces

2.) 1 quart = _____ ounces

3.) 1 gallon = _____ quarts

4.) 1 gallon = _____ ounces

5.) How many **ounces** are in the milk plastic jug your mother purchases the store? _____

6.) How many **quarts** are in the milk plastic jug your mother purchases the store? _____

7.) 2 cups = _____ ounces

8.) 4 quarts = _____ gallon

9.) 2 cups = _____ pint

10.) 1 pint = _____ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 cup = _____ ounces

2.) 1 quart = _____ ounces

3.) 1 gallon = _____ quarts

4.) 1 gallon = _____ ounces

5.) How many **ounces** are in the milk plastic jug your mother purchases the store? _____

6.) How many **quarts** are in the milk plastic jug your mother purchases the store? _____

7.) 2 cups = _____ ounces

8.) 4 quarts = _____ gallon

9.) 2 cups = _____ pint

10.) 1 pint = _____ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 cup = _____ ounces

2.) 1 quart = _____ ounces

3.) 1 gallon = _____ quarts

4.) 1 gallon = _____ ounces

5.) How many **ounces** are in the milk plastic jug your mother purchases the store? _____

6.) How many **quarts** are in the milk plastic jug your mother purchases the store? _____

7.) 2 cups = _____ ounces

8.) 4 quarts = _____ gallon

9.) 2 cups = _____ pint

10.) 1 pint = _____ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 cup = _____ ounces

2.) 1 quart = _____ ounces

3.) 1 gallon = _____ quarts

4.) 1 gallon = _____ ounces

5.) How many **ounces** are in the milk plastic jug your mother purchases the store? _____

6.) How many **quarts** are in the milk plastic jug your mother purchases the store? _____

7.) 2 cups = _____ ounces

8.) 4 quarts = _____ gallon

9.) 2 cups = _____ pint

10.) 1 pint = _____ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 2 cups = _____ ounces

2.) 2 quarts = _____ ounces

3.) 1 gallon = _____ quarts

4.) 1 gallon = _____ ounces

5.) 3 pints = _____ cups

6.) 1 pint = _____cups

7.) 2 cups = _____ ounces

8.) 4 quarts = _____ gallon

9.) 2 cups = _____ pint

10.) 1 pint = _____ounces

11.) 4 cups = _____ pints

12.) 4 cups = _____ ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 2 cups = _____ ounces

2.) 2 quarts = _____ ounces

3.) 1 gallon = _____ quarts

4.) 1 gallon = _____ ounces

5.) 3 pints = _____ cups

6.) 1 pint = _____cups

7.) 2 cups = _____ ounces

8.) 4 quarts = _____ gallon

9.) 2 cups = _____ pint

10.) 1 pint = _____ounces

11.) 4 cups = _____ pints

12.) 4 cups = _____ ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 2 cups = _____ ounces

2.) 2 quarts = _____ ounces

3.) 1 gallon = _____ quarts

4.) 1 gallon = _____ ounces

5.) 3 pints = _____ cups

6.) 1 pint = _____cups

7.) 2 cups = _____ ounces

8.) 4 quarts = _____ gallon

9.) 2 cups = _____ pint

10.) 1 pint = _____ounces

11.) 4 cups = _____ pints

12.) 4 cups = _____ ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 4 cups = _____ ounces

2.) 1 quarts = _____ ounces

3.) 1 gallon = _____ quarts

4.) 1 gallon = _____ ounces

5.) 1 pint = _____ cups

6.) 1 pint = _____ounces

7.) 2 cups = _____ ounces

8.) 8 quarts = _____ gallons

9.) 1 cup = _____ pint***Think

10.) 2 cups = _____ pint

11.) 3 cups = _____ pints***Think

12.) 4 cups = _____ pints

Name:_____

Daily Math 5 minute Review on Measurement

1.) 4 cups = _____ ounces

2.) 1 quarts = _____ ounces

3.) 1 gallon = _____ quarts

4.) 1 gallon = _____ ounces

5.) 1 pint = _____ cups

6.) 1 pint = _____ounces

7.) 2 cups = _____ ounces

8.) 8 quarts = _____ gallons

9.) 1 cup = _____ pint***Think

10.) 2 cups = _____ pint

11.) 3 cups = _____ pints***Think

12.) 4 cups = _____ pints

Name:_____

Daily Math 5 minute Review on Measurement

1.) 4 cups = _____ ounces

2.) 1 quarts = _____ ounces

3.) 1 gallon = _____ quarts

4.) 1 gallon = _____ ounces

5.) 1 pint = _____ cups

6.) 1 pint = _____ounces

7.) 2 cups = _____ ounces

8.) 8 quarts = _____ gallons

9.) 1 cup = _____ pint***Think

10.) 2 cups = _____ pint

11.) 3 cups = _____ pints***Think

12.) 4 cups = _____ pints

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 cup = _____ ounces

2.) 4 quarts = _____ ounces

3.) 2 gallon = _____ quarts

4.) 2 gallon = _____ ounces

5.) 1 pint = _____ cups

6.) 1 pint = _____ounces

7.) 2 cups = _____ ounces

8.) 12 quarts = _____ gallons

9.) 1 cup = _____ pint***Think

10.) 2 cups = _____ pint

11.) 3 cups = _____ pints***Think

12.) 4 cups = _____ pints

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 cup = _____ ounces

2.) 4 quarts = _____ ounces

3.) 2 gallon = _____ quarts

4.) 2 gallon = _____ ounces

5.) 1 pint = _____ cups

6.) 1 pint = _____ounces

7.) 2 cups = _____ ounces

8.) 12 quarts = _____ gallons

9.) 1 cup = _____ pint***Think

10.) 2 cups = _____ pint

11.) 3 cups = _____ pints***Think

12.) 4 cups = _____ pints

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 cup = _____ ounces

2.) 4 quarts = _____ ounces

3.) 2 gallon = _____ quarts

4.) 2 gallon = _____ ounces

5.) 1 pint = _____ cups

6.) 1 pint = _____ounces

7.) 2 cups = _____ ounces

8.) 12 quarts = _____ gallons

9.) 1 cup = _____ pint***Think

10.) 2 cups = _____ pint

11.) 3 cups = _____ pints***Think

12.) 4 cups = _____ pints

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 pint = _____ ounces

2.) 2 quarts = _____ ounces

3.) 5 gallon = _____ quarts

4.) 2 gallon = _____ ounces

5.) 1 quart = _____ ounces

6.) 2 pints = _____ounces

7.) 3 cups = _____ ounces

8.) 8 quarts = _____ gallons

9.) 1 cup = _____ pint***Think

10.) 2 cups = _____ pint

11.) 3 cups = _____ pints***Think

12.) 4 cups = _____ pints

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 pint = _____ ounces

2.) 2 quarts = _____ ounces

3.) 5 gallon = _____ quarts

4.) 2 gallon = _____ ounces

5.) 1 quart = _____ ounces

6.) 2 pints = _____ounces

7.) 3 cups = _____ ounces

8.) 8 quarts = _____ gallons

9.) 1 cup = _____ pint***Think

10.) 2 cups = _____ pint

11.) 3 cups = _____ pints***Think

12.) 4 cups = _____ pints

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 pint = _____ ounces

2.) 2 quarts = _____ ounces

3.) 5 gallon = _____ quarts

4.) 2 gallon = _____ ounces

5.) 1 quart = _____ ounces

6.) 2 pints = _____ounces

7.) 3 cups = _____ ounces

8.) 8 quarts = _____ gallons

9.) 1 cup = _____ pint***Think

10.) 2 cups = _____ pint

11.) 3 cups = _____ pints***Think

12.) 4 cups = _____ pints

Name:_____

Daily Math 5 minute Review on Measurement

1.) 3 pints = _____ ounces

2.) 3 quarts = _____ ounces

3.) 10 gallons = _____ quarts

4.) 1 gallon = _____ ounces

5.) 1 quart = _____ ounces

6.) 2 cups = _____pint

7.) 4 cups = _____ ounces

8.) 12 quarts = _____ gallons

9.) 8 ounces = _____ pint***

10.) 16 ounces = _____ pint

11.) 24 ounces = _____ pints***

12.) 32 ounces = _____ pints

Name:_____

Daily Math 5 minute Review on Measurement

1.) 3 pints = _____ ounces

2.) 3 quarts = _____ ounces

3.) 10 gallons = _____ quarts

4.) 1 gallon = _____ ounces

5.) 1 quart = _____ ounces

6.) 2 cups = _____pint

7.) 4 cups = _____ ounces

8.) 12 quarts = _____ gallons

9.) 8 ounces = _____ pint***

10.) 16 ounces = _____ pint

11.) 24 ounces = _____ pints***

12.) 32 ounces = _____ pints

Name:_____

Daily Math 5 minute Review on Measurement

1.) 3 pints = _____ ounces

2.) 3 quarts = _____ ounces

3.) 10 gallons = _____ quarts

4.) 1 gallon = _____ ounces

5.) 1 quart = _____ ounces

6.) 2 cups = _____pint

7.) 4 cups = _____ ounces

8.) 12 quarts = _____ gallons

9.) 8 ounces = _____ pint***

10.) 16 ounces = _____ pint

11.) 24 ounces = _____ pints***

12.) 32 ounces = _____ pints

Answer Key

Measurement

Customary – Capacity

4th through 8th Grades

10 Day Unit

of 60 Day Measurement Program

5 – 10 Minutes Per Day

Customary Units – Capacity – ANSWER KEY

Customary Units – Capacity Name: Answer Key - Day 11

Daily Math 5 minute Review on Measurement

1.) Ounces in a cup __8__

2.) Ounces in a pint __16__

3.) Ounces in a quart __32__

4.) Ounces in a gallon __128__

Students will need visuals on each of these objects.

Examples of each capacity is highly recommended.

Place a chart on the wall that shows a comparison from ounces to gallons

Use Mr. Gallon Guy as well.

7.) 1 cup = __8__ ounces

8.) 2 cups = __16__ ounces

9.) 2 cups = __1__ pint

10.) 1 pint = __16__ ounces

5.) What is the capacity **(ounces)** of your milk carton at breakfast in the cafeteria? __8__

6.) What is the capacity **(cups)** of your milk carton at breakfast in the cafeteria? __1___

Customary Units – Capacity Name: Answer Key - Day 12

Daily Math 5 minute Review on Measurement

1.) Ounces in a cup __8__

2.) Ounces in a pint __16__

3.) Ounces in a quart __32__

4.) Ounces in a gallon __128__

7.) 1 cup = __8__ ounces

8.) 2 cups = __16__ ounces

9.) 2 cups = __1__ pint

10.) 1 quart = __2__ pints

5.) What is the capacity **(ounces)** of your milk carton at breakfast in the cafeteria? __8__

6.) What is the capacity **(cups)** of your milk carton at breakfast in the cafeteria? __1___

Customary Units – Capacity Name: Answer Key - Day 13

Daily Math 5 minute Review on Measurement

1.) Ounces in a cup __8__

2.) Ounces in a pint __16__

3.) Ounces in a quart __32__

4.) Ounces in a gallon __128__

7.) 1 cup = __8__ ounces

8.) 2 cups = __16__ ounces

9.) 2 cups = __1__ pint

10.) 1 quart = __2__ pints

5.) What is the capacity **(ounces)** of your milk carton at breakfast in the cafeteria? __8__

6.) What is the capacity **(cups)** of your milk carton at breakfast in the cafeteria? __1___

Customary Units – Capacity – ANSWER KEY

Customary Units – Capacity Name: Answer Key - Day 14

Daily Math 5 minute Review on Measurement

1.) 1 cup = __8__ ounces

2.) 1 quart = __32__ ounces

3.) 1 gallon = __4___ quarts

4.) 1 gallon = ___128___ ounces

5.) How many **ounces** are in the milk plastic jug your mother purchases the store? __128__

6.) How many **quarts** are in the milk plastic jug your mother purchases the store? __4__

7.) 2 cups = __16__ ounces

8.) 4 quarts = __1__ gallon

9.) 2 cups = ___1_ pint

10.) 1 pint = __16_ounces

Customary Units – Capacity Name: Answer Key - Day 15

Daily Math 5 minute Review on Measurement

1.) 1 cup = __8__ ounces

2.) 1 quart = __32__ ounces

3.) 1 gallon = __4___ quarts

4.) 1 gallon = ___128___ ounces

5.) How many **ounces** are in the milk plastic jug your mother purchases the store? __128__

6.) How many **quarts** are in the milk plastic jug your mother purchases the store? __4__

7.) 2 cups = __16__ ounces

8.) 4 quarts = __1__ gallon

9.) 2 cups = ___1_ pint

10.) 1 pint = __16_ounces

Customary Units – Capacity Name: Answer Key - Day 16

Daily Math 5 minute Review on Measurement

1.) 2 cups = _16__ ounces

2.) 2 quarts = __64_ ounces

3.) 1 gallon = ___4__ quarts

4.) 1 gallon = ___128__ ounces

5.) 3 pints = ___6__ cups

6.) 1 pint = ___2__cups

7.) 2 cups = _16__ ounces

8.) 4 quarts = __1_ gallon

9.) 2 cups = __1__ pint

10.) 1 pint = __16__ounces

11.) 4 cups = __2__ pints

12.) 4 cups = __16__ ounces

Customary Units – Capacity – ANSWER KEY

Customary Units – Capacity Name: Answer Key - Day 17

Daily Math 5 minute Review on Measurement

1.) 4 cups = __32__ ounces

2.) 1 quarts = __32__ ounces

3.) 1 gallon = ___4___ quarts

4.) 1 gallon = ___128__ ounces

5.) 1 pint = ___4__ cups

6.) 1 pint = __16___ounces

7.) 2 cups = __16__ ounces

8.) 8 quarts = _2__ gallons

9.) 1 cup = __½__ pint***Think

10.) 2 cups = _1__ pint

11.) 3 cups = _1½__ pints***Think

12.) 4 cups = __2__ pints

Customary Units – Capacity Name: Answer Key - Day 18

Daily Math 5 minute Review on Measurement

1.) 1 cup = ___8__ ounces

2.) 4 quarts = __128__ ounces

3.) 2 gallon = __8__ quarts

4.) 2 gallon = __256__ ounces

5.) 1 pint = ___2__ cups

6.) 1 pint = ___16__ounces

7.) 2 cups = __16__ ounces

8.) 12 quarts = __4__ gallons

9.) 1 cup = __½__ pint***Think

10.) 2 cups = __1__ pint

11.) 3 cups = _1½__ pints***Think

12.) 4 cups = __2__ pints

Customary Units – Capacity Name: Answer Key - Day 19

Daily Math 5 minute Review on Measurement

1.) 1 pint = ___16__ ounces

2.) 2 quarts = __64__ ounces

3.) 5 gallon = ___20___ quarts

4.) 2 gallon = __256__ ounces

5.) 1 quart = ___32__ ounces

6.) 2 pints = __32__ounces

7.) 3 cups = __24__ ounces

8.) 8 quarts = __2__ gallons

9.) 1 cup = __½__ pint***Think

10.) 2 cups = __1__ pint

11.) 3 cups = _1½__ pints***Think

12.) 4 cups = __2__ pints

Customary Units – Capacity – ANSWER KEY

Customary Units – Capacity Name: Answer Key - Day 20

Daily Math 5 minute Review on Measurement

1.) 3 pints = __48__ ounces

2.) 3 quarts = __96__ ounces

3.) 10 gallons = __40__ quarts

4.) 1 gallon = __128__ ounces

5.) 1 quart = ___32__ ounces

6.) 2 cups = ___1__ pint

7.) 4 cups = __32__ ounces

8.) 12 quarts = __3__ gallons

9.) 8 ounces = __½_ pint***

10.) 16 ounces = __1__ pint

11.) 24 ounces = _1½__ pints***

12.) 32 ounces = __2__ pints

Measurement

Customary – Weight

4th through 8th Grades

10 Day Unit

of 60 Day Measurement Program

5 – 10 Minutes Per Day

 www.amara4education.com

Customary – Weight Section

4th - 8th Grade Five-Minute Daily Measurement Warm-Ups

This 10 day program (per section) is intended to provide basic skill levels in converting and understanding magnitudes in the following measurement areas/sections:

1.) Customary Measurement (Length): inches, feet, yards and miles.

2.) Customary Measurement (Capacity – Volume): fluid ounces, cups, pints, quarts and gallons.

3.) Customary Measurement (Weight): ounces (dry), pounds and tons.

4.) Metric Measurement (Length): millimeters (mm), centimeters (cm), meters (m) and kilometers (km)

5.) Metric Measurement (Capacity): milliliters (ml), Liters (L) and Kiloliters (kl)

6.) Metric Measurement (Mass): milligram (mg), grams (g) and kilograms (kg)

The warm-ups are designed so the children can readily pick them up as they enter the classroom or the warm-ups are distributed normally through classroom procedures. The teacher must make minimal copies, since the sheets may be separated into 3 student sheets per page. Hence, with 24 students – only 8 Xerox copies need to be made for an entire classroom. An answer key is provided at the end of the packet.

Section 3.) Customary Measurement (Weight): ounces (dry), pounds and tons are included in this instructional packet.

Customary Measurements in weight are quite straight forward for most 5th – 8th graders. Students are often accustomed to pounds, and simple multiplication or multiples work makes dry ounces and tons easy computational conversions. However, a high level numerate understanding of converting and working with these customary distances is highly beneficial to a student when the measurement terms and computations appear in word problem exercises. However, on problem types that require computations using halves: ½ of a pound, ½ of a ton, and 1 ½ pounds or tons, for example, students need extra practice and they become adept at working these problems readily.

It is recommended that the teacher use visual models to assist students in understanding pounds and ounces. For ounces, five (5) United States quarters weigh very close to 1 ounce. This visual gives students a relative idea on the weight of 1/16 of a pound or 1 ounce. For pounds, locate an object in the classroom that weighs very close to a pound such as a stapler or a small clock. Finally, relating a student's body weight to pounds is also beneficial since it provides students a quick reference and understanding to their weight in comparison to other objects, in general. Care must be taken if a child is overweight to make sure there are not negative unintended consequences that affect a child's self-esteem.

When students struggle with certain problem types in the daily warm-ups, it is a clear indication that the students need more practice with that concept, not less. It is advisable for the teacher to present quick practice examples in math class or during transition periods until students master that concept or problem type.

It is also recommended to use these short daily measurements in conjunction with a Space Repetition System classroom instructional methodology.

Name:_____

Daily Math 5 minute Review on Measurement

1.) Dry ounces in a pound = _____

2.) Pounds in 1 Ton = _____

3.) 2 Tons = _____ pounds

4.) 3 Tons = _____ pounds

5.) About what is the **weight** of your **body** in pounds? _____

6.) About what is the **weight** of one pineapple purchased in the store in pounds? _____

7.) 1 pound = _____ dry ounces

8.) 2 pounds = _____ dry ounces

9.) 32 dry ounces = _____ pounds

10.) ½ pound = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) Dry ounces in a pound = _____

2.) Pounds in 1 Ton = _____

3.) 2 Tons = _____ pounds

4.) 3 Tons = _____ pounds

5.) About what is the **weight** of your **body** in pounds? _____

6.) About what is the **weight** of one pineapple purchased in the store in pounds? _____

7.) 1 pound = _____ dry ounces

8.) 2 pounds = _____ dry ounces

9.) 32 dry ounces = _____ pounds

10.) ½ pound = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) Dry ounces in a pound = _____

2.) Pounds in 1 Ton = _____

3.) 2 Tons = _____ pounds

4.) 3 Tons = _____ pounds

5.) About what is the **weight** of your **body** in pounds? _____

6.) About what is the **weight** of one pineapple purchased in the store in pounds? _____

7.) 1 pound = _____ dry ounces

8.) 2 pounds = _____ dry ounces

9.) 32 dry ounces = _____ pounds

10.) ½ pound = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) Dry ounces in a pound = _____

2.) 1 Ton = _____ pounds

3.) 2 Tons = _____ pounds

4.) 3 Tons = _____ pounds

5.) About what is the **weight** of your **body** in pounds? _____

6.) About what is the **weight** of a student desk in your classroom? _____

7.) 2 pounds = _____ dry ounces

8.) 1 pound = _____ dry ounces

9.) 32 dry ounces = _____ pounds

10.) ½ pound = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) Dry ounces in a pound = _____

2.) 1 Ton = _____ pounds

3.) 2 Tons = _____ pounds

4.) 3 Tons = _____ pounds

5.) About what is the **weight** of your **body** in pounds? _____

6.) About what is the **weight** of a student desk in your classroom? _____

7.) 2 pounds = _____ dry ounces

8.) 1 pound = _____ dry ounces

9.) 32 dry ounces = _____ pounds

10.) ½ pound = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) Dry ounces in a pound = _____

2.) 1 Ton = _____ pounds

3.) 2 Tons = _____ pounds

4.) 3 Tons = _____ pounds

5.) About what is the **weight** of your **body** in pounds? _____

6.) About what is the **weight** of a student desk in your classroom? _____

7.) 2 pounds = _____ dry ounces

8.) 1 pound = _____ dry ounces

9.) 32 dry ounces = _____ pounds

10.) ½ pound = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) Dry ounces in a pound = _____

2.) 2 Tons = _____ pounds

3.) 4 Tons = _____ pounds

4.) 1 Ton = _____ pounds

5.) About what is the **weight** of your **body** in pounds? _____

6.) About what is the **weight** of a gallon of milk in your refrigerator? _____

7.) 3 pounds = _____ dry ounces

8.) 2 pound = _____ dry ounces

9.) 8 dry ounces = _____ pounds

10.) ½ pound = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) Dry ounces in a pound = _____

2.) 2 Tons = _____ pounds

3.) 4 Tons = _____ pounds

4.) 1 Ton = _____ pounds

5.) About what is the **weight** of your **body** in pounds? _____

6.) About what is the **weight** of a gallon of milk in your refrigerator? _____

7.) 3 pounds = _____ dry ounces

8.) 2 pound = _____ dry ounces

9.) 8 dry ounces = _____ pounds

10.) ½ pound = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) Dry ounces in a pound = _____

2.) 2 Tons = _____ pounds

3.) 4 Tons = _____ pounds

4.) 1 Ton = _____ pounds

5.) About what is the **weight** of your **body** in pounds? _____

6.) About what is the **weight** of a gallon of milk in your refrigerator? _____

7.) 3 pounds = _____ dry ounces

8.) 2 pound = _____ dry ounces

9.) 8 dry ounces = _____ pounds

10.) ½ pound = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 16 ounces = _____ pound

2.) 4 Tons = _____ pounds

3.) 4,000 pounds = _____ Tons

4.) 2 Tons = _____ pounds

5.) About what is the **weight** of a normal sized car? _____

6.) About what is the **weight** of a classroom chair? _____

7.) 8 dry ounces = _____ pound

8.) 1 pound = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 1½ pound = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 16 ounces = _____ pound

2.) 4 Tons = _____ pounds

3.) 4,000 pounds = _____ Tons

4.) 2 Tons = _____ pounds

5.) About what is the **weight** of a normal sized car? _____

6.) About what is the **weight** of a classroom chair? _____

7.) 8 dry ounces = _____ pound

8.) 1 pound = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 1½ pound = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 16 ounces = _____ pound

2.) 4 Tons = _____ pounds

3.) 4,000 pounds = _____ Tons

4.) 2 Tons = _____ pounds

5.) About what is the **weight** of a normal sized car? _____

6.) About what is the **weight** of a classroom chair? _____

7.) 8 dry ounces = _____ pound

8.) 1 pound = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 1½ pound = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 32 ounces = _____ pounds

2.) 5 Tons = _____ pounds

3.) 6,000 pounds = _____ Tons

4.) 2 Tons = _____ pounds

5.) About what is the **weight** of a normal sized car? _____

6.) About what is the **weight** of the classroom clock on the wall? _____

7.) 48 dry ounces = _____ pounds

8.) 1 pound = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 1½ pound = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 32 ounces = _____ pounds

2.) 5 Tons = _____ pounds

3.) 6,000 pounds = _____ Tons

4.) 2 Tons = _____ pounds

5.) About what is the **weight** of a normal sized car? _____

6.) About what is the **weight** of the classroom clock on the wall? _____

7.) 48 dry ounces = _____ pounds

8.) 1 pound = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 1½ pound = _____dry ounces

Daily Math 5 minute Review on Measurement

1.) 32 ounces = _____ pounds

2.) 5 Tons = _____ pounds

3.) 6,000 pounds = _____ Tons

4.) 2 Tons = _____ pounds

5.) About what is the **weight** of a normal sized car? _____

6.) About what is the **weight** of the classroom clock on the wall? _____

7.) 48 dry ounces = _____ pounds

8.) 1 pound = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 1½ pound = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 64 dry ounces = _____ pounds

2.) 6 Tons = _____ pounds

3.) 6,000 pounds = _____ Tons

4.) 1/2 Ton = _____ pounds

5.) Would you weigh more on Earth or on the moon? _____

6.) About what is the **weight** of the teacher's desk? _____

7.) 8 dry ounces = _____ pounds

8.) 1 pound = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 1½ pound = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 64 dry ounces = _____ pounds

2.) 6 Tons = _____ pounds

3.) 6,000 pounds = _____ Tons

4.) 1/2 Ton = _____ pounds

5.) Would you weigh more on Earth or on the moon? _____

6.) About what is the **weight** of the teacher's desk? _____

7.) 8 dry ounces = _____ pounds

8.) 1 pound = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 1½ pound = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 64 dry ounces = _____ pounds

2.) 6 Tons = _____ pounds

3.) 6,000 pounds = _____ Tons

4.) 1/2 Ton = _____ pounds

5.) Would you weigh more on Earth or on the moon? _____

6.) About what is the **weight** of the teacher's desk? _____

7.) 8 dry ounces = _____ pounds

8.) 1 pound = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 1½ pound = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 32 dry ounces = _____ pounds

2.) 1 Ton = _____ pounds

3.) 3,000 pounds = _____ Tons **(think)**

4.) 1/2 Ton = _____ pounds

5.) Would you weigh <u>more</u> on Earth or on the planet Jupiter? _____

6.) About what is the **<u>weight</u>** of the principal? _____

7.) 8 dry ounces = _____ pounds

8.) 2 pounds = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 2½ pounds = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 32 dry ounces = _____ pounds

2.) 1 Ton = _____ pounds

3.) 3,000 pounds = _____ Tons **(think)**

4.) 1/2 Ton = _____ pounds

5.) Would you weigh <u>more</u> on Earth or on the planet Jupiter? _____

6.) About what is the **<u>weight</u>** of the principal? _____

7.) 8 dry ounces = _____ pounds

8.) 2 pounds = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 2½ pounds = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 32 dry ounces = _____ pounds

2.) 1 Ton = _____ pounds

3.) 3,000 pounds = _____ Tons **(think)**

4.) 1/2 Ton = _____ pounds

5.) Would you weigh <u>more</u> on Earth or on the planet Jupiter? _____

6.) About what is the **<u>weight</u>** of the principal? _____

7.) 8 dry ounces = _____ pounds

8.) 2 pounds = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 2½ pounds = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 3 pounds = _____ dry ounces

2.) 2 Tons = _____ pounds

3.) 5,000 pounds = _____ Tons **(think)**

4.) 1/2 Ton = _____ pounds

5.) Would you weigh more on Earth or on the moon? _____

6.) About what is the **weight** of the assistant principal at your school? _____

7.) 8 dry ounces = _____ pounds

8.) 4 pounds = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 1½ pounds = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 3 pounds = _____ dry ounces

2.) 2 Tons = _____ pounds

3.) 5,000 pounds = _____ Tons **(think)**

4.) 1/2 Ton = _____ pounds

5.) Would you weigh more on Earth or on the moon? _____

6.) About what is the **weight** of the assistant principal at your school? _____

7.) 8 dry ounces = _____ pounds

8.) 4 pounds = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 1½ pounds = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 3 pounds = _____ dry ounces

2.) 2 Tons = _____ pounds

3.) 5,000 pounds = _____ Tons **(think)**

4.) 1/2 Ton = _____ pounds

5.) Would you weigh more on Earth or on the moon? _____

6.) About what is the **weight** of the assistant principal at your school? _____

7.) 8 dry ounces = _____ pounds

8.) 4 pounds = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 1½ pounds = _____dry ounces

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 pound – 2 ounces = _____ dry ounces

2.) 1 pound – 4 ounces = _____ dry ounces

3.) 6,000 pounds = _____ Tons

4.) 1 ½ Tons = _____ pounds

5.) 32 dry ounces = _____ pounds

6.) 8,000 pounds = _____Tons

7.) 16 dry ounces = _____ pound

8.) 3 pounds = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 1½ pounds = _____dry ounces

11.) 2½ pounds = _____dry ounces

12.) 2½ Tons = _____ pounds

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 pound – 2 ounces = _____ dry ounces

2.) 1 pound – 4 ounces = _____ dry ounces

3.) 6,000 pounds = _____ Tons

4.) 1 ½ Tons = _____ pounds

5.) 32 dry ounces = _____ pounds

6.) 8,000 pounds = _____Tons

7.) 16 dry ounces = _____ pound

8.) 3 pounds = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 1½ pounds = _____dry ounces

11.) 2½ pounds = _____dry ounces

12.) 2½ Tons = _____ pounds

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 pound – 2 ounces = _____ dry ounces

2.) 1 pound – 4 ounces = _____ dry ounces

3.) 6,000 pounds = _____ Tons

4.) 1 ½ Tons = _____ pounds

5.) 32 dry ounces = _____ pounds

6.) 8,000 pounds = _____Tons

7.) 16 dry ounces = _____ pound

8.) 3 pounds = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 1½ pounds = _____dry ounces

11.) 2½ pounds = _____dry ounces

12.) 2½ Tons = _____ pounds

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 pound – 10 ounces = _____ dry ounces

2.) 1 pound – 6 ounces = _____ dry ounces

3.) 10,000 pounds = _____ Tons

4.) 1 ½ Tons = _____ pounds

5.) 48 dry ounces = _____ pounds

6.) 4,000 pounds = _____Tons

7.) 32 dry ounces = _____ pounds

8.) 4 pounds = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 1½ pounds = _____dry ounces

11.) 2½ pounds = _____dry ounces

12.) 2½ Tons = _____ pounds

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 pound – 10 ounces = _____ dry ounces

2.) 1 pound – 6 ounces = _____ dry ounces

3.) 10,000 pounds = _____ Tons

4.) 1 ½ Tons = _____ pounds

5.) 48 dry ounces = _____ pounds

6.) 4,000 pounds = _____Tons

7.) 32 dry ounces = _____ pounds

8.) 4 pounds = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 1½ pounds = _____dry ounces

11.) 2½ pounds = _____dry ounces

12.) 2½ Tons = _____ pounds

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 pound – 10 ounces = _____ dry ounces

2.) 1 pound – 6 ounces = _____ dry ounces

3.) 10,000 pounds = _____ Tons

4.) 1 ½ Tons = _____ pounds

5.) 48 dry ounces = _____ pounds

6.) 4,000 pounds = _____Tons

7.) 32 dry ounces = _____ pounds

8.) 4 pounds = _____ dry ounces

9.) ½ pound = _____ dry ounces

10.) 1½ pounds = _____dry ounces

11.) 2½ pounds = _____dry ounces

12.) 2½ Tons = _____ pounds

Answer Key

Measurement

Customary – Weight

4th through 8th Grades

10 Day Unit

of 60 Day Measurement Program

5 – 10 Minutes Per Day

Customary Units – Weight – ANSWER KEY

Customary Units – Weight Name: Answer Key - Day 21

Daily Math 5 minute Review on Measurement

1.) Dry ounces in a pound = __16__

2.) Pounds in 1 Ton = _2,000_

3.) 2 Tons = _4,000_ pounds

4.) 3 Tons = _6,000_ pounds

7.) 1 pound = __16__dry ounces

8.) 2 pounds = __32_ dry ounces

9.) 32 dry ounces = __2_ pounds

10.) ½ pound = __8_ dry ounces

5.) About what is the **weight** of your **body** in pounds? _varies_ **(help students know their weight to use their weight as a reference for other smaller objects.)**

6.) About what is the **weight** of one pineapple purchased in the store in pounds? _about 2_

Customary Units – Weight Name: Answer Key - Day 22

Daily Math 5 minute Review on Measurement

1.) Dry ounces in a pound = __16__

2.) 1 Ton = _2,000_ pounds

3.) 2 Tons = _4,000_ pounds

4.) 3 Tons = _6,000_ pounds

7.) 2 pounds = __32_ dry ounces

8.) 1 pound = __16__ dry ounces

9.) 32 dry ounces = __2_ pounds

10.) ½ pound = __8_ dry ounces

5.) About what is the **weight** of your **body** in pounds? _varies_ **(help students know their weight to use their weight as a reference for other smaller objects.)**

6.) About what is the **weight** of a student desk in your classroom? **about 25 pounds - varies**

Customary Units – Weight Name: Answer Key - Day 23

Daily Math 5 minute Review on Measurement

1.) Dry ounces in a pound = __16__

2.) 2 Tons = _4,000_ pounds

3.) 4 Tons = _8,000_ pounds

4.) 1 Ton = _2,000_ pounds

7.) 3 pounds = __48_ dry ounces

8.) 2 pound = __32_ dry ounces

9.) 8 dry ounces = _½__ pounds

10.) ½ pound = __8_ dry ounces

5.) About what is the **weight** of your **body** in pounds? _varies_ **(help students know their weight to use their weight as a reference for other smaller objects.)**

6.) About what is the **weight** of a gallon of milk in your refrigerator? __8 pounds___

Customary Units – Weight – ANSWER KEY

Customary Units – Weight Name: Answer Key - Day 24

Daily Math 5 minute Review on Measurement

1.) 16 ounces = __1__ pound

2.) 4 Tons = _8,000_ pounds

3.) 4,000 pounds = __2__ Tons

4.) 2 Tons = _4,000_ pounds

5.) About what is the **weight** of a normal sized car? _varies - 2,000 lbs. to 3,500 lbs._

6.) About what is the **weight** of a classroom chair? varies – reasonable 12 to 20 lbs.

7.) 8 dry ounces = _½__ pound

8.) 1 pound = __16__ dry ounces

9.) ½ pound = __8__ dry ounces

10.) 1½ pound = _24_ dry ounces

Customary Units – Weight Name: Answer Key - Day 25

Daily Math 5 minute Review on Measurement

1.) 32 ounces = __2__ pounds

2.) 5 Tons = _10,000_ pounds

3.) 6,000 pounds = __3__ Tons

4.) 2 Tons = _4,000_ pounds 8 + 16 = 24

5.) About what is the **weight** of a normal sized car? _varies - 2,000 lbs. to 3,500 lbs._

6.) About what is the **weight** of the classroom clock on the wall? varies – 2 to 3 lbs.

7.) 48 dry ounces = __3__ pounds

8.) 1 pound = __16__ dry ounces

9.) ½ pound = __8__ dry ounces

10.) 1½ pound = _24_ dry ounces

Customary Units – Weight Name: Answer Key - Day 26

Daily Math 5 minute Review on Measurement

1.) 64 dry ounces = __4__ pounds

2.) 6 Tons = _12,000_ pounds

3.) 6,000 pounds = __3__ Tons

4.) 1/2 Ton = __1,000__ pounds 8 + 16 = 24

5.) Would you weigh more on Earth or on the moon? ___Earth, moon is smaller. Earth has a higher gravitational field – more mass – pulls harder on all objects.

6.) About what is the **weight** of the teacher's desk? Varies – 50 to 100 pounds - reasonable

7.) 8 dry ounces = __½__ pounds

8.) 1 pound = _16_ dry ounces

9.) ½ pound = _8__ dry ounces

10.) 1½ pound = _24__dry ounces

Customary Units – Weight – ANSWER KEY

Customary Units – Weight Name: Answer Key - Day 27

Daily Math 5 minute Review on Measurement

1.) 32 dry ounces = ___2__ pounds

2.) 1 Ton = _2,000_ pounds

3.) 3,000 pounds = ___1 ½_ Tons **(think)**

4.) 1/2 Ton = 1,000_ pounds

7.) 8 dry ounces = _½_ pounds

8.) 2 pounds = __32_ dry ounces

9.) ½ pound = __8__ dry ounces

10.) 2½ pounds = __40_ dry ounces

5.) Would you weigh more on Earth or on the planet Jupiter? **Jupiter, the Earth is smaller. Jupiter has much more mass than Earth…larger gravitational field…PULLS MORE.**

6.) About what is the **weight** of the principal? **Varies – 100 to 300 pounds – Be Nice!!**

Customary Units – Weight Name: Answer Key - Day 28

Daily Math 5 minute Review on Measurement

1.) 3 pounds = __48__ dry ounces

2.) 2 Tons = _4,000_ pounds

3.) 5,000 pounds = __2 ½_ _ Tons **(think)**

4.) 1/2 Ton = 1,000_ pounds

7.) 8 dry ounces = __½_ pounds

8.) 4 pounds = __64__ dry ounces

9.) ½ pound = __8_ dry ounces

10.) 1½ pounds = _24__dry ounces

5.) Would you weigh more on Earth or on the moon? __Earth – if a person weighs 180 lbs. on Earth, then they weigh 1/6 of that weight on the moon or 30 lbs.

6.) About what is the **weight** of the assistant principal at your school? **Varies – 100 to 300 lbs.**

Customary Units – Weight Name: Answer Key - Day 29

Daily Math 5 minute Review on Measurement

1.) 1 pound – 2 ounces = __18__ dry ounces

2.) 1 pound – 4 ounces = __20__ dry ounces

3.) 6,000 pounds = __3__ Tons

4.) 1 ½ Tons = 3,000_ pounds

5.) 32 dry ounces = __16_ pounds

6.) 8,000 pounds = ___4__Tons

7.) 16 dry ounces = _2__ pounds

8.) 3 pounds = _48__ dry ounces

9.) ½ pound = __8_ dry ounces

10.) 1½ pounds = _24__dry ounces

11.) 2½ pounds = _40__dry ounces

12.) 2½ Tons = _5,000_ pounds

Customary Units – Weight – ANSWER KEY

Customary Units – Weight Name: Answer Key - Day 30

Daily Math 5 minute Review on Measurement

1.) 1 pound – 10 ounces = __26__ dry ounces

2.) 1 pound – 6 ounces = __22__ dry ounces

3.) 10,000 pounds = ___5__ Tons

4.) 1 ½ Tons = _3,000_ pounds

5.) 48 dry ounces = __4__ pounds

6.) 4,000 pounds = __2__Tons

7.) 32 dry ounces = _2__ pounds

8.) 4 pounds = __64_ dry ounces

9.) ½ pound = __8_ dry ounces

10.) 1½ pounds = _24__dry ounces

11.) 2½ pounds = _40__dry ounces

12.) 2½ Tons = __5,000_ pounds

Measurement

Metric – Length

4th through 8th Grades

10 Day Unit

of 60 Day Measurement Program

5 – 10 Minutes Per Day

Metric Measurement – Length Section

4th - 8th Grade Five-Minute Daily Measurement Warm-Ups

This 10 day program (per section) is intended to provide basic skill levels in converting and understanding magnitudes in the following measurement areas/sections:

1.) Customary Measurement (Length): inches, feet, yards and miles.

2.) Customary Measurement (Capacity – Volume): ounces, cups, pints, quarts and gallons.

3.) Customary Measurement (Weight): ounces (dry), pounds and tons.

4.) <u>Metric Measurement (Length): millimeters (mm), centimeters (cm), meters (m) and kilometers (km)</u>

5.) Metric Measurement (Capacity): milliliters (ml), Liters (L) and Kiloliters (kl)

6.) Metric Measurement (Mass): milligram (mg), grams (g) and kilograms (kg)

The warm-ups are designed so the children can readily pick them up as they enter the classroom or the warm-ups are distributed normally through classroom procedures. The teacher must make minimal copies, since the sheets may be separated into 3 student sheets per page. Hence, with 24 students – only 8 Xerox copies need to be made for an entire classroom. An answer key is provided at the end of the packet.

Section 4.) Metric Measurement (Length): millimeters (mm), centimeters (cm), meters (m) and kilometers (km) are <u>included</u> in this instructional packet.

Metric Measurements in Length are challenging for many 5th – 8th graders due to their general unfamiliarity of magnitudes on the length of a centimeter or millimeter. Consequently, in order to ingrain the size of millimeters and centimeters, the student should will need to become adept at physically measuring lines with a ruler. More practice than the daily warm-up will be needed to master basic metric measurement. Furthermore, as a student's math facts and computational skills develop, simple applications in computing the area and perimeter of quadrilaterals or triangles assist in the student reinforcing many important skills at one time. In fifth grade, since students are taught the addition and multiplication algorithms using decimals, there should no problem a student cannot work at a competent level in computing that area or perimeter of a polygon after using a ruler to measure the length of each side of the polygon.

It is recommended that the teacher use visual aides to assist students (a meter stick) to assist them in visualizing the magnitude or length of a meter, and repetitively requiring students to understand that there are 1,000 millimeters and 100 centimeters in 1 meter. Also, when explaining the distance of a kilometer (1,000 meters), it is highly recommended that a reference distance be chosen that students are familiar (usually the distance from the school to a known building or landmark to assist students in a more concrete distance of 1 kilometer).

When students struggle with certain problem types in the daily warm-ups, it is a clear indication that the students need more practice with that concept, not less. It is advisable for the teacher to present quick practice examples in math class or during transition periods until students master that concept or problem type. Much practice will be required for mastery in metric measurement since the students are not as familiar with these units of measure in this country…even though it is much easier to convert between equivalent units than customary.

It is also recommended to use these short daily measurements in conjunction with a Space Repetition System classroom instructional methodology

Name:_____

Daily Math 5 minute Review on Measurement

1.) centimeters in a meter _____

2.) millimeters in a meter _____

3.) millimeters in a centimeter _____

4.) About how big is a centimeter? _____

5.) About how long is your **thumb** in centimeters? _____

6.) Measure in **centimeters**: _____ _____ centimeters

7.) 2 cm = _____ mm

8.) 4 cm = _____ mm

9.) 2 m = _____ cm

10.) 20 mm = _____ cm

11.) 15 mm = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) centimeters in a meter _____

2.) millimeters in a meter _____

3.) millimeters in a centimeter _____

4.) About how big is a centimeter? _____

5.) About how long is your **thumb** in centimeters?

6.) Measure in **centimeters**: _____ _____ centimeters

7.) 2 cm = _____ mm

8.) 4 cm = _____ mm

9.) 2 m = _____ cm

10.) 20 mm = _____ cm

11.) 15 mm = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) centimeters in a meter _____

2.) millimeters in a meter _____

3.) millimeters in a centimeter _____

4.) About how big is a centimeter? _____

5.) About how long is your **thumb** in centimeters?

6.) Measure in **centimeters**: _____ _____ centimeters

7.) 2 cm = _____ mm

8.) 4 cm = _____ mm

9.) 2 m = _____ cm

10.) 20 mm = _____ cm

11.) 15 mm = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) centimeters in a meter _____

2.) millimeters in a meter _____

3.) millimeters in a centimeter _____

4.) About how big is a centimeter? _____

5.) About how long is your **little finger** in centimeters? _____

6.) Measure in **millimeters**: _____ _____ millimeters

7.) 3 cm = _____ mm

8.) 20 mm = _____ cm

9.) 3 m = _____ cm

10.) 40 mm = _____ cm

11.) 25 mm = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) centimeters in a meter _____

2.) millimeters in a meter _____

3.) millimeters in a centimeter _____

4.) About how big is a centimeter? _____

5.) About how long is your **little finger** in centimeters? _____

6.) Measure in **millimeters**: _____ _____ millimeters

7.) 3 cm = _____ mm

8.) 20 mm = _____ cm

9.) 3 m = _____ cm

10.) 40 mm = _____ cm

11.) 25 mm = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) centimeters in a meter _____

2.) millimeters in a meter _____

3.) millimeters in a centimeter _____

4.) About how big is a centimeter? _____

5.) About how long is your **little finger** in centimeters? _____

6.) Measure in **millimeters**: _____ _____ millimeters

7.) 3 cm = _____ mm

8.) 20 mm = _____ cm

9.) 3 m = _____ cm

10.) 40 mm = _____ cm

11.) 25 mm = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) millimeters in a meter _____

2.) centimeters in a meter _____

3.) millimeters in a centimeter _____

4.) About how big is a centimeter? _____

5.) About how tall is the ceiling in meters? _____

6.) Measure:  _____ millimeters = _____ centimeters

7.) 7 cm = _____ mm

8.) 50 mm = _____ cm

9.) 2 m = _____ cm

10.) 35 mm = _____ cm

11.) 15 mm = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) millimeters in a meter _____

2.) centimeters in a meter _____

3.) millimeters in a centimeter _____

4.) About how big is a centimeter? _____

5.) About how tall is the ceiling in meters? _____

6.) Measure: _____ millimeters = _____ centimeters

7.) 7 cm = _____ mm

8.) 50 mm = _____ cm

9.) 2 m = _____ cm

10.) 35 mm = _____ cm

11.) 15 mm = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) millimeters in a meter _____

2.) centimeters in a meter _____

3.) millimeters in a centimeter _____

4.) About how big is a centimeter? _____

5.) About how tall is the ceiling in meters? _____

6.) Measure: _____ millimeters = _____ centimeters

7.) 7 cm = _____ mm

8.) 50 mm = _____ cm

9.) 2 m = _____ cm

10.) 35 mm = _____ cm

11.) 15 mm = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) centimeters in a meter _____

2.) millimeters in a centimeter _____

3.) millimeters in a meter _____

4.) What does the word 'meter' mean? _____

5.) About how high is the ceiling in meters from the floor? _____

6.) Measure: _____ centimeters = _____ millimeters

7.) 10 cm = _____ mm

8.) 90 mm = _____ cm

9.) 5 m = _____ cm

10.) 32 mm = _____ cm

11.) 19 mm = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) centimeters in a meter _____

2.) millimeters in a centimeter _____

3.) millimeters in a meter _____

4.) What does the word 'meter' mean? _____

5.) About how high is the ceiling in meters from the floor? _____

6.) Measure: _____ centimeters = _____ millimeters

7.) 10 cm = _____ mm

8.) 90 mm = _____ cm

9.) 5 m = _____ cm

10.) 32 mm = _____ cm

11.) 19 mm = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) centimeters in a meter _____

2.) millimeters in a centimeter _____

3.) millimeters in a meter _____

4.) What does the word 'meter' mean? _____

5.) About how high is the ceiling in meters from the floor? _____

6.) Measure: _____ centimeters = _____ millimeters

7.) 10 cm = _____ mm

8.) 90 mm = _____ cm

9.) 5 m = _____ cm

10.) 32 mm = _____ cm

11.) 19 mm = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) centimeters in a meter _____

2.) millimeters in a centimeter _____

3.) millimeters in a meter _____

4.) What does the word 'meter' mean? _____

5.) About how long is a car in meters? _____

6.) Measure:  _____ centimeters = _____ millimeters

7.) 15 cm = _____ mm

8.) 80 mm = _____ cm

9.) 4 m = _____ cm

10.) 24 mm = _____ cm

11.) 17 mm = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

7.) centimeters in a meter _____

8.) millimeters in a centimeter _____

9.) millimeters in a meter _____

10.) What does the word 'meter' mean? _____

11.) About how long is a car in meters? _____

12.) Measure:  _____ centimeters = _____ millimeters

7.) 15 cm = _____ mm

8.) 80 mm = _____ cm

9.) 4 m = _____ cm

10.) 24 mm = _____ cm

11.) 17 mm = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

13.) centimeters in a meter _____

14.) millimeters in a centimeter _____

15.) millimeters in a meter _____

16.) What does the word 'meter' mean? _____

17.) About how long is a car in meters? _____

18.) Measure:  _____ centimeters = _____ millimeters

7.) 15 cm = _____ mm

8.) 80 mm = _____ cm

9.) 4 m = _____ cm

10.) 24 mm = _____ cm

11.) 17 mm = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) 300 centimeters equals _____ meters

2.) 60 millimeters equals _____ centimeters

3.) 1,000 millimeters equals ____ meter

4.) What does the word 'meter' mean? _____

5.) About how tall is your teacher in centimeters? _____

6.) Measure: _____ millimeters = _____ centimeters

7.) 12 cm = _____ mm

8.) 76 mm = _____ cm

9.) 0.5 m = _____ cm

10.) 2 m = _____ cm

11.) 2.5 m = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) 300 centimeters equals _____ meters

2.) 60 millimeters equals _____ centimeters

3.) 1,000 millimeters equals ____ meter

4.) What does the word 'meter' mean? _____

5.) About how tall is your teacher in centimeters? _____

6.) Measure: _____ millimeters = _____ centimeters

7.) 12 cm = _____ mm

8.) 76 mm = _____ cm

9.) 0.5 m = _____ cm

10.) 2 m = _____ cm

11.) 2.5 m = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) 300 centimeters equals _____ meters

2.) 60 millimeters equals _____ centimeters

3.) 1,000 millimeters equals ____ meter

4.) What does the word 'meter' mean? _____

5.) About how tall is your teacher in centimeters? _____

6.) Measure: _____ millimeters = _____ centimeters

7.) 12 cm = _____ mm

8.) 76 mm = _____ cm

9.) 0.5 m = _____ cm

10.) 2 m = _____ cm

11.) 2.5 m = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) 800 centimeters equals _____ meters

2.) 40 millimeters equals _____ centimeter

3.) 500 millimeters equals ____ meter (think)

4.) How many **meters** in a kilometer? _____

5.) 2 kilometers equals _____ meters

6.) Measure:  _____ centimeters = _____ millimeters

7.) 4.6 cm =_____ mm

8.) 78 mm = _____ cm

9.) 0.5 m = _____ cm

10.) 3 m = _____ cm

11.) 3.5 m = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) 800 centimeters equals _____ meters

2.) 40 millimeters equals _____ centimeter

3.) 500 millimeters equals ____ meter (think)

4.) How many **meters** in a kilometer? _____

5.) 2 kilometers equals _____ meters

6.) Measure: _____ centimeters = _____ millimeters

7.) 4.6 cm =_____ mm

8.) 78 mm = _____ cm

9.) 0.5 m = _____ cm

10.) 3 m = _____ cm

11.) 3.5 m = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) 800 centimeters equals _____ meters

2.) 40 centimeters equals _____ meter (think)

3.) 500 millimeters equals ____ meter (think)

4.) How many **meters** in a kilometer? _____

5.) 2 kilometers equals _____ meters

6.) Measure: _____ centimeters = _____ millimeters

7.) 4.6 cm =_____ mm

8.) 78 mm = _____ cm

9.) 0.5 m = _____ cm

10.) 3 m = _____ cm

11.) 3.5 m = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 kilometer = _____ meters **or** 1,000 meters = _____ km

2.) 2,000 meters = _____ kilometers

3.) 4 kilometers = _____ meters

4.) 5,000 meters = _____ kilometers

5.) 2.5 kilometers equals _____ meters (think)

6.) Measure: _____ millimeters = _____ centimeters

7.) 8.6 cm =_____ mm

8.) 98 mm = _____ cm

9.) 0.5 m = _____ cm

10.) 2.5 m = _____ cm

11.) 1.34 m = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 kilometer = _____ meters **or** 1,000 meters = _____ km

2.) 2,000 meters = _____ kilometers

3.) 4 kilometers = _____ meters

4.) 5,000 meters = _____ kilometers

5.) 2.5 kilometers equals _____ meters (think)

6.) Measure: _____ millimeters = _____ centimeters

7.) 8.6 cm =_____ mm

8.) 98 mm = _____ cm

9.) 0.5 m = _____ cm

10.) 2.5 m = _____ cm

11.) 1.34 m = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1 kilometer = _____ meters **or** 1,000 meters = _____ km

2.) 2,000 meters = _____ kilometers

3.) 4 kilometers = _____ meters

4.) 5,000 meters = _____ kilometers

5.) 2.5 kilometers equals _____ meters (think)

6.) Measure: _____ millimeters = _____ centimeters

7.) 8.6 cm =_____ mm

8.) 98 mm = _____ cm

9.) 0.5 m = _____ cm

10.) 2.5 m = _____ cm

11.) 1.34 m = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) 2 kilometer = _____ meters **or** 2,000 meters = _____ km

2.) 3,000 meters = _____ kilometers

3.) 5 kilometers = _____ meters

4.) 10,000 meters = _____ kilometers

5.) 1.5 kilometers equals _____ meters (think)

6.) Measure: _____ millimeters = _____ centimeters

7.) 3.4 cm =_____ mm

8.) 48 mm = _____ cm

9.) 0.2 m = _____ cm

10.) 3.5 m = _____ cm

11.) 2.56 m = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) 2 kilometer = _____ meters **or** 2,000 meters = _____ km

2.) 3,000 meters = _____ kilometers

3.) 5 kilometers = _____ meters

4.) 10,000 meters = _____ kilometers

5.) 1.5 kilometers equals _____ meters (think)

6.) Measure: _____ millimeters = _____ centimeters

7.) 3.4 cm =_____ mm

8.) 48 mm = _____ cm

9.) 0.2 m = _____ cm

10.) 3.5 m = _____ cm

11.) 2.56 m = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) 2 kilometer = _____ meters **or** 2,000 meters = _____ km

2.) 3,000 meters = _____ kilometers

3.) 5 kilometers = _____ meters

4.) 10,000 meters = _____ kilometers

5.) 1.5 kilometers equals _____ meters (think)

6.) Measure: _____ millimeters = _____ centimeters

7.) 3.4 cm =_____ mm

8.) 48 mm = _____ cm

9.) 0.2 m = _____ cm

10.) 3.5 m = _____ cm

11.) 2.56 m = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1.5 kilometer = _____ meters **or** 1,500 meters = _____ km

2.) 7,000 meters = _____ kilometers

3.) 2 kilometers = _____ meters

4.) 500 meters = _____ kilometers

5.) 2.5 kilometers equals _____ meters

6.) Measure: _____ centimeters = _____ millimeters

7.) 5.1 cm =_____ mm

8.) 36 mm = _____ cm

9.) 0.8 m = _____ cm

10.) 2.5 m = _____ cm

11.) 1.32 m = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1.5 kilometer = _____ meters **or** 1,500 meters = _____ km

2.) 7,000 meters = _____ kilometers

3.) 2 kilometers = _____ meters

4.) 500 meters = _____ kilometers

5.) 2.5 kilometers equals _____ meters

6.) Measure: _____ centimeters = _____ millimeters

7.) 5.1 cm =_____ mm

8.) 36 mm = _____ cm

9.) 0.8 m = _____ cm

10.) 2.5 m = _____ cm

11.) 1.32 m = _____ cm

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1.5 kilometer = _____ meters **or** 1,500 meters = _____ km

2.) 7,000 meters = _____ kilometers

3.) 2 kilometers = _____ meters

4.) 500 meters = _____ kilometers

5.) 2.5 kilometers equals _____ meters

6.) Measure: _____ centimeters = _____ millimeters

7.) 5.1 cm =_____ mm

8.) 36 mm = _____ cm

9.) 0.8 m = _____ cm

10.) 2.5 m = _____ cm

11.) 1.32 m = _____ cm

Answer Key

Measurement

Metric – Length

4th through 8th Grades

10 Day Unit

of 60 Day Measurement Program

5 – 10 Minutes Per Day

Metric Units – Length – ANSWER KEY

Metric Units – Length Name: Answer Key - Day 31

Daily Math 5 minute Review on Measurement

1.) centimeters in a meter __100__

2.) millimeters in a meter __1,000__

3.) millimeters in a centimeter __10___

4.) About how big is a centimeter? _the length of the fingernail on your small finger_

5.) About how long is your **thumb** in centimeters? __varies__

6.) Measure in **centimeters**: __7.9__ centimeters

7.) 2 cm = __20_ mm

8.) 4 cm = __40_ mm

9.) 2 m = __200__ cm

10.) 20 mm = __2__ cm

11.) 15 mm = __1.5__ cm

Metric Units – Length Name: Answer Key - Day 32

Daily Math 5 minute Review on Measurement

1.) centimeters in a meter __100_

2.) millimeters in a meter __1,000_

3.) millimeters in a centimeter ___10___

4.) About how big is a centimeter? the length of the fingernail on your small finger _

5.) About how long is your **little finger** in centimeters? varies

6.) Measure in **millimeters**: __74__ millimeters

7.) 3 cm = __3__ mm

8.) 20 mm = __2__ cm

9.) 3 m = __300_ cm

10.) 40 mm = ___4__ cm

11.) 25 mm = __2.5__ cm

Metric Units – Length Name: Answer Key - Day 33

Daily Math 5 minute Review on Measurement

1.) millimeters in a meter _1,000_

2.) centimeters in a meter __100__

3.) millimeters in a centimeter ___10__

4.) About how big is a centimeter? the length of the fingernail on your small finger

5.) About how tall is the ceiling in meters? Varies (3 meters)

6.) Measure: ___29__ millimeters = __2.9_ centimeters

7.) 7 cm = __70__ mm

8.) 50 mm = __5__ cm

9.) 2 m = _200__ cm

10.) 35 mm = __3.5__ cm

11.) 15 mm = __1.5__ cm

Metric Units – Length – ANSWER KEY

Metric Units – Length Name: Answer Key - Day 34

Daily Math 5 minute Review on Measurement

1.) centimeters in a meter __100___

2.) millimeters in a centimeter _10__

3.) millimeters in a meter _1,000__

4.) What does the word 'meter' mean? _____"measure"_____

5.) About how high is the ceiling in meters from the floor? Varies

6.) Measure:  __3.8__ centimeters = __38__ millimeters

7.) 10 cm = _100_ mm

8.) 90 mm = __9__ cm

9.) 5 m = __500__ cm

10.) 32 mm = _3.2__ cm

11.) 19 mm = _1.9__ cm

Metric Units – Length Name: Answer Key - Day 35

Daily Math 5 minute Review on Measurement

1.) centimeters in a meter _100_

2.) millimeters in a centimeter __10__

3.) millimeters in a meter __1,000_

4.) What does the word 'meter' mean? _____"measure"_____

5.) About how long is a car in meters? _3 to 4 meters_

6.) Measure:  __6.8_ centimeters = __68_ millimeters

7.) 15 cm = _150_ mm

8.) 80 mm = __8__ cm

9.) 4 m = _500__ cm

10.) 24 mm = _2.4__ cm

11.) 17 mm = __1.7__ cm

Metric Units – Length Name: Answer Key - Day 36

Daily Math 5 minute Review on Measurement

1.) 300 centimeters equals __3__ meters

2.) 60 millimeters equals ___6__ centimeters

3.) 1,000 millimeters equals _1__ meter

4.) What does the word 'meter' mean? _____"measure"_____

5.) About how tall is your teacher in centimeters? _varies_

6.) Measure: _55__ millimeters = _5.5__ centimeters

7.) 12 cm = _120_ mm

8.) 76 mm = _7.6_ cm

9.) 0.5 m = __50_ cm

10.) 2 m = _200_ cm

11.) 2.5 m = _250_ cm

Metric Units – Length – ANSWER KEY

Metric Units – Length Name: Answer Key - Day 37

Daily Math 5 minute Review on Measurement

1.) 800 centimeters equals __8__ meters

2.) 40 millimeters equals ___4__ centimeters

3.) 500 millimeters equals _1/2_ meter (think)

4.) How many **meters** in a kilometer? _1,000__

5.) 2 kilometers equals _____ meters

6.) Measure:  __4.3_ centimeters = __43_ millimeters

7.) 4.6 cm =__46_ mm

8.) 78 mm = __7.8_ cm

9.) 0.5 m = __50__ cm

10.) 3 m = _300__ cm

11.) 3.5 m = _350__ cm

Metric Units – Length Name: Answer Key - Day 38

Daily Math 5 minute Review on Measurement

1.) 1 kilometer = _1,000_ meters **or** 1,000 meters = __1_ km

2.) 2,000 meters = __2__ kilometers

3.) 4 kilometers = _4,000_ meters

4.) 5,000 meters = __5__ kilometers

5.) 2.5 kilometers equals __2,500__ meters (think)

6.) Measure:  __72__ millimeters = __7.2__ centimeters

7.) 8.6 cm =__86_ mm

8.) 98 mm = _9.8__ cm

9.) 0.5 m = __50__ cm

10.) 2.5 m = _250__ cm

11.) 1.34 m = _134__ cm

Metric Units – Length Name: Answer Key - Day 39

Daily Math 5 minute Review on Measurement

1.) 2 kilometer = _2,000_ meters **or** 2,000 meters = __2__ km

2.) 3,000 meters = ___3__ kilometers

3.) 5 kilometers = __5,000__ meters

4.) 10,000 meters = __10__ kilometers

5.) 1.5 kilometers equals ___1500__ meters (think)

6.) Measure: __19__ millimeters = __1.9__ centimeters

7.) 3.4 cm =_34_ mm

8.) 48 mm = _4.8__ cm

9.) 0.2 m = __20__ cm

10.) 3.5 m = __350__ cm

11.) 2.56 m = __256__ cm

Metric Units – Length – ANSWER KEY

Metric Units – Length Name: Answer Key - Day 40

Daily Math 5 minute Review on Measurement

1.) 1.5 kilometer = _**1,500**_ meters **or** 1,500 meters = __**1.5**__ km

2.) 7,000 meters = __**7**___ kilometer

3.) 2 kilometers = __**2,000**__ meters

4.) 500 meters = __**1/2 or 0.5**_ kilometers

5.) 2.5 kilometers equals ___**2,500**__ meters

6.) Measure: __**4**_ centimeters = __**40**_ millimeters

7.) 5.1 cm =_**51**_ mm

8.) 36 mm = __**3.6**_ cm

9.) 0.8 m = __**80**__ cm

10.) 2.5 m = __**250**__ cm

11.) 1.32 m = __**132**__ cm

Measurement

Metric – Capacity

4th through 8th Grades

10 Day Unit

of 60 Day Measurement Program

5 – 10 Minutes Per Day

Metric Measurement – Capacity Section

4th - 8th Grade Five-Minute Daily Measurement Warm-Ups

This 10 day program (per section) is intended to provide basic skill levels in converting and understanding magnitudes in the following measurement areas/sections:

1.) Customary Measurement (Length): inches, feet, yards and miles.

2.) Customary Measurement (Capacity – Volume): ounces, cups, pints, quarts and gallons.

3.) Customary Measurement (Weight): ounces (dry), pounds and tons.

4.) Metric Measurement (Length): millimeters (mm), centimeters (cm), meters (m) and kilometers (km)

5.) Metric Measurement (Capacity): milliliters (ml), Liters (L) and Kiloliters (KL)

6.) Metric Measurement (Mass): milligram (mg), grams (g) and kilograms (kg)

The warm-ups are designed so the children can readily pick them up as they enter the classroom or the warm-ups are distributed normally through classroom procedures. The teacher must make minimal copies, since the sheets may be separated into 3 student sheets per page. Hence, with 24 students – only 8 Xerox copies need to be made for an entire classroom. An answer key is provided at the end of the packet.

Section 6.) Metric Measurement (Capacity): milliliters (ml), liters (L) and kiloliters (KL) are <u>included</u> in this instructional packet.

Metric Measurements in Capacity are extremely challenging for many 5th – 8th graders due to their general unfamiliarity of magnitudes on the mass of a milliliters, liters and Kiloliters. Consequently, in order to ingrain the mass of these units, the student should will need to become adept at approximate masses of familiar objects. The math and movement of the decimal point in metric makes the conversion between equivalent metric units fairly straight forward; however, the student should be instructed to ask herself/himself after each conversion to evaluate the reasonableness of their solution. Using the relative guidelines of known objects summarized in the next paragraph should make this much easier for every student. However, the more the students use and see objects that contain the metric amounts of various objects, the more adept they will become visualizing the relative magnitudes of metric capacity units.

It is recommended that the teacher use visual aides to assist students (a Liter of water or soda) to assist them in visualizing the magnitude or size of 1 Liter, and repetitively requiring students to understand that there are 1,000 liters in 1 Kiloliter and so forth. In order for the student to better understand milliliters, it is also recommended the teacher use a standard soda can as a standard. A 12 ounce soda can has 333 ml (0.333L) or a 1/3 of a Liter. The students will have a known object to associate both metric capacities…Liters and Milliliters. Finally, a milliliter is defined as the following: 1 milliliter is equivalent to 1 centimeter^3. Hence, the teacher may elect to show students a 1 centimeter cube for students to accurately visualize the size of 1 milliliter.

When students struggle with certain problem types in the daily warm-ups, that is a clear indication that the students need more practice with that concept, not less. It is advisable for the teacher to present quick practice examples in math class or during transition periods until students master that concept or problem type. Much practice will be required for mastery in metric measurement since the students are not as familiar with these units of measure in this country…even though it is much easier to convert between equivalent metric units than customary.

It is also recommended to use these short daily measurements in conjunction with a Space Repetition System classroom instructional methodology

Name:_____

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _____

2.) Liters (L) in a Kiloliter (KL) _____

3.) 1 milliliter in a Liter _____

4.) 1 Liter in a Kiloliter _____

5.) 1 Liter is about the size of a _____ in the customary measurement system.

6.) A can of soda is this many milliliters _____ (or about a third of 1 Liter).

7.) 2,000 ml = _____ Liters

8.) 5 KL = _____ Liters

9.) 500 ml = _____ Liter

10.) 1,500 ml = _____ Liters

Name:_____

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _____

2.) Liters (L) in a Kiloliter (KL) _____

3.) 1 milliliter in a Liter _____

4.) 1 Liter in a Kiloliter _____

5.) 1 Liter is about the size of a _____ in the customary measurement system.

6.) A can of soda is this many milliliters _____ (or about a third of 1 Liter).

7.) 2,000 ml = _____ Liters

8.) 5 KL = _____ Liters

9.) 500 ml = _____ Liter

10.) 1,500 ml = _____ Liters

Name:_____

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _____

2.) Liters (L) in a Kiloliter (KL) _____

3.) 1 milliliter in a Liter _____

4.) 1 Liter in a Kiloliter _____

5.) 1 Liter is about the size of a _____ in the customary measurement system.

6.) A can of soda is this many milliliters _____ (or about a third of 1 Liter).

7.) 2,000 ml = _____ Liters

8.) 5 KL = _____ Liters

9.) 500 ml = _____ Liter

10.) 1,500 ml = _____ Liters

Name:_____

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _____

2.) Liters (L) in a Kiloliter (KL) _____

3.) 1 milliliter in a Liter _____

4.) 1 Liter in a Kiloliter _____

5.) 1 Liter is about the size of a _____ in the customary measurement system.

6.) A can of soda is this many milliliters _____ (or about a third of 1 Liter).

7.) 3,000 ml = _____ Liters

8.) 4 KL = _____ Liters

9.) 500 ml = _____ Liter

10.) 2,500 ml = _____ Liters

Name:_____

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _____

2.) Liters (L) in a Kiloliter (KL) _____

3.) 1 milliliter in a Liter _____

4.) 1 Liter in a Kiloliter _____

5.) 1 Liter is about the size of a _____ in the customary measurement system.

6.) A can of soda is this many milliliters _____ (or about a third of 1 Liter).

7.) 3,000 ml = _____ Liters

8.) 4 KL = _____ Liters

9.) 500 ml = _____ Liter

10.) 2,500 ml = _____ Liters

Name:_____

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _____

2.) Liters (L) in a Kiloliter (KL) _____

3.) 1 milliliter in a Liter _____

4.) 1 Liter in a Kiloliter _____

5.) 1 Liter is about the size of a _____ in the customary measurement system.

6.) A can of soda is this many milliliters _____ (or about a third of 1 Liter).

7.) 3,000 ml = _____ Liters

8.) 4 KL = _____ Liters

9.) 500 ml = _____ Liter

10.) 2,500 ml = _____ Liters

Name:_____

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _____

2.) Liters (L) in a Kiloliter (KL) _____

3.) 1 milliliter in a Liter _____

4.) 1 Liter in a Kiloliter _____

5.) 1 Liter is about the size of a _____ in the customary measurement system.

6.) A can of soda is this many milliliters _____ (or about a third of 1 Liter).

7.) 8,000 ml = _____ Liters

8.) 7 KL = _____ Liters

9.) 333 ml = _____ Liter

10.) 4,500 ml = _____ Liters

Name:_____

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _____

2.) Liters (L) in a Kiloliter (KL) _____

3.) 1 milliliter in a Liter _____

4.) 1 Liter in a Kiloliter _____

5.) 1 Liter is about the size of a _____ in the customary measurement system.

6.) A can of soda is this many milliliters _____ (or about a third of 1 Liter).

7.) 8,000 ml = _____ Liters

8.) 7 KL = _____ Liters

9.) 333 ml = _____ Liter

10.) 4,500 ml = _____ Liters

Name:_____

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _____

2.) Liters (L) in a Kiloliter (KL) _____

3.) 1 milliliter in a Liter _____

4.) 1 Liter in a Kiloliter _____

5.) 1 Liter is about the size of a _____ in the customary measurement system.

6.) A can of soda is this many milliliters _____ (or about a third of 1 Liter).

7.) 8,000 ml = _____ Liters

8.) 7 KL = _____ Liters

9.) 333 ml = _____ Liter

10.) 4,500 ml = _____ Liters

Name:_____

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _____

2.) Liters (L) in a Kiloliter (KL) _____

3.) 4,000 L = _____ KL

4.) _____ml = 3.75 L

5.) A can of soda is this many milliliters _____ (or about a third of 1 Liter).

6.) Paul and Jose each drink a can of soda. How many total milliliters is this? _____

7.) 9,500 ml = _____ Liters

8.) 10 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 750 ml = _____ Liters

Name:_____

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _____

2.) Liters (L) in a Kiloliter (KL) _____

3.) 4,000 L = _____ KL

4.) _____ml = 3.75 L

5.) A can of soda is this many milliliters _____ (or about a third of 1 Liter).

6.) Paul and Jose each drink a can of soda. How many total milliliters is this? _____

7.) 9,500 ml = _____ Liters

8.) 10 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 750 ml = _____ Liters

Name:_____

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _____

2.) Liters (L) in a Kiloliter (KL) _____

3.) 4,000 L = _____ KL

4.) _____ml = 3.75 L

5.) A can of soda is this many milliliters _____ (or about a third of 1 Liter).

6.) Paul and Jose each drink a can of soda. How many total milliliters is this? _____

7.) 9,500 ml = _____ Liters

8.) 10 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 750 ml = _____ Liters

Name:_____

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _____

2.) Liters (L) in a Kiloliter (KL) _____

3.) _____ L = 3.45 KL

4.) _____ml = 9.010 L

7.) 2,500 ml = _____ Liters

8.) 20 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 750 ml = _____ Liters

5.) 1 gallon of gas is exactly 4 quarts. About how many Liters in one gallon of gas? _____

6.) Paul and Jose each drink a can of soda. How many total milliliters is this? _____

Name:_____

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _____

2.) Liters (L) in a Kiloliter (KL) _____

3.) _____ L = 3.45 KL

4.) _____ml = 9.010 L

7.) 2,500 ml = _____ Liters

8.) 20 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 750 ml = _____ Liters

5.) 1 gallon of gas is exactly 4 quarts. About how many Liters in one gallon of gas? _____

6.) Paul and Jose each drink a can of soda. How many total milliliters is this? _____

Name:_____

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _____

2.) Liters (L) in a Kiloliter (KL) _____

3.) _____ L = 3.45 KL

4.) _____ml = 9.010 L

7.) 2,500 ml = _____ Liters

8.) 20 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 750 ml = _____ Liters

5.) 1 gallon of gas is exactly 4 quarts. About how many Liters in one gallon of gas? _____

6.) Paul and Jose each drink a can of soda. How many total milliliters is this? _____

Name:_____

Daily Math 5 minute Review on Measurement

1.) 4.5 KL = _____ L

2.) 3.5 L = _____ ml

3.) _____ L = 4.752 KL

4.) _____ml = 10.5 L

5.) 1 gallon of gas is exactly 4 quarts. About how many Liters in two gallons of gas? _____

6.) Joe, Maria and Bill drink each drink a can of soda. How many total milliliters is this? _____

7.) 4,500 ml = _____ Liters

8.) 50 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 750 ml = _____ Liters

Name:_____

Daily Math 5 minute Review on Measurement

1.) 4.5 KL = _____ L

2.) 3.5 L = _____ ml

3.) _____ L = 4.752 KL

4.) _____ml = 10.5 L

5.) 1 gallon of gas is exactly 4 quarts. About how many Liters in two gallons of gas? _____

6.) Joe, Maria and Bill drink each drink a can of soda. How many total milliliters is this? _____

7.) 4,500 ml = _____ Liters

8.) 50 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 750 ml = _____ Liters

Name:_____

Daily Math 5 minute Review on Measurement

1.) 4.5 KL = _____ L

2.) 3.5 L = _____ ml

3.) _____ L = 4.752 KL

4.) _____ml = 10.5 L

5.) 1 gallon of gas is exactly 4 quarts. About how many Liters in two gallons of gas? _____

6.) Joe, Maria and Bill drink each drink a can of soda. How many total milliliters is this? _____

7.) 4,500 ml = _____ Liters

8.) 50 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 750 ml = _____ Liters

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1.5 KL = _____ L

2.) 0.5 L = _____ ml

3.) _____ L = 0.5 KL

4.) _____ml = 1.5 L

7.) 6,500 ml = _____ Liters

8.) 20 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 250 ml = _____ Liters

5.) It takes 40 gallons of water to fill a bathtub. About how many Liters of water is this? _____

6.) A **six** pack of Mt Dew is purchased. About how many total milliliters or Liters is this? _____

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1.5 KL = _____ L

2.) 0.5 L = _____ ml

3.) _____ L = 0.5 KL

4.) _____ml = 1.5 L

7.) 6,500 ml = _____ Liters

8.) 20 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 250 ml = _____ Liters

5.) It takes 40 gallons of water to fill a bathtub. About how many Liters of water is this? _____

6.) A **six** pack of Mt Dew is purchased. About how many total milliliters or Liters is this? _____

Name:_____

Daily Math 5 minute Review on Measurement

1.) 1.5 KL = _____ L

2.) 0.5 L = _____ ml

3.) _____ L = 0.5 KL

4.) _____ml = 1.5 L

7.) 6,500 ml = _____ Liters

8.) 20 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 250 ml = _____ Liters

5.) It takes 40 gallons of water to fill a bathtub. About how many Liters of water is this? _____

6.) A **six** pack of Mt Dew is purchased. About how many total milliliters or Liters is this? _____

Name:_____

Daily Math 5 minute Review on Measurement

1.) 2.5 KL = _____ L

2.) 0.5 L = _____ ml

3.) _____ L = 0.5 KL

4.) _____ml = 8.5 L

7.) 3,250 ml = _____ Liters

8.) 50 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 750 ml = _____ Liters

5.) It takes 40 gallons of water to fill a bathtub. About how many Liters of water is this? _____

6.) A **six** pack of Coca-Cola is purchased. About how many total milliliters or Liters is this? _____

Name:_____

Daily Math 5 minute Review on Measurement

1.) 2.5 KL = _____ L

2.) 0.5 L = _____ ml

3.) _____ L = 0.5 KL

4.) _____ml = 8.5 L

7.) 3,250 ml = _____ Liters

8.) 50 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 750 ml = _____ Liters

5.) It takes 40 gallons of water to fill a bathtub. About how many Liters of water is this? _____

6.) A **six** pack of Coca-Cola is purchased. About how many total milliliters or Liters is this? _____

Name:_____

Daily Math 5 minute Review on Measurement

1.) 2.5 KL = _____ L

2.) 0.5 L = _____ ml

3.) _____ L = 0.5 KL

4.) _____ml = 8.5 L

7.) 3,250 ml = _____ Liters

8.) 50 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 750 ml = _____ Liters

5.) It takes 40 gallons of water to fill a bathtub. About how many Liters of water is this? _____

6.) A **six** pack of Coca-Cola is purchased. About how many total milliliters or Liters is this? _____

Name:_____

Daily Math 5 minute Review on Measurement

1.) 8.5 KL = _____ L

2.) 0.5 L = _____ ml

3.) _____ L = 0.5 KL

4.) _____ml = 6.25 L

7.) 3,500 ml = _____ Liters

8.) 25 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 580 ml = _____ Liters

5.) A water tower's capacity will be measured in what units? a.) Liters b.) Kiloliters c.) Milliliters

6.) A **six** pack of Dr. Pepper is purchased. About how many total Liters is this? _____ Liters

Name:_____

Daily Math 5 minute Review on Measurement

1.) 8.5 KL = _____ L

2.) 0.5 L = _____ ml

3.) _____ L = 0.5 KL

4.) _____ml = 6.25 L

7.) 3,500 ml = _____ Liters

8.) 25 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 580 ml = _____ Liters

5.) A water tower's capacity will be measured in what units? a.) Liters b.) Kiloliters c.) Milliliters

6.) A **six** pack of Dr. Pepper is purchased. About how many total Liters is this? _____ Liters

Name:_____

Daily Math 5 minute Review on Measurement

1.) 8.5 KL = _____ L

2.) 0.5 L = _____ ml

3.) _____ L = 0.5 KL

4.) _____ml = 6.25 L

7.) 3,500 ml = _____ Liters

8.) 25 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 580 ml = _____ Liters

5.) A water tower's capacity will be measured in what units? a.) Liters b.) Kiloliters c.) Milliliters

6.) A **six** pack of Dr. Pepper is purchased. About how many total Liters is this? _____ Liters

Name:_____

Daily Math 5 minute Review on Measurement

1.) 3.5 KL = _____ L

2.) 0.5 L = _____ ml

3.) _____ L = 0.5 KL

4.) _____ml = 8.5 L

7.) 5,500 ml = _____ Liters

8.) 15 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 750 ml = _____ Liters

5.) A bathtub's capacity will be measured in what units? a.) Liters b.) Kiloliters c.) Milliliters

6.) 3 cans of soda are drank. About how many total milliliters is this? _____ milliliters

Name:_____

Daily Math 5 minute Review on Measurement

1.) 3.5 KL = _____ L

2.) 0.5 L = _____ ml

3.) _____ L = 0.5 KL

4.) _____ml = 8.5 L

7.) 5,500 ml = _____ Liters

8.) 15 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 750 ml = _____ Liters

5.) A bathtub's capacity will be measured in what units? a.) Liters b.) Kiloliters c.) Milliliters

6.) 3 cans of soda are drank. About how many total milliliters is this? _____ milliliters

Name:_____

Daily Math 5 minute Review on Measurement

1.) 3.5 KL = _____ L

2.) 0.5 L = _____ ml

3.) _____ L = 0.5 KL

4.) _____ml = 8.5 L

7.) 5,500 ml = _____ Liters

8.) 15 KL = _____ Liters

9.) 333 ml = _____ Liters

10.) 750 ml = _____ Liters

5.) A bathtub's capacity will be measured in what units? a.) Liters b.) Kiloliters c.) Milliliters

6.) 3 cans of soda are drank. About how many total milliliters is this? _____ milliliters

Answer Key

Measurement

Metric – Capacity

4th through 8th Grades

10 Day Unit

of 60 Day Measurement Program

5 – 10 Minutes Per Day

Metric Units – Capacity – ANSWER KEY

Metric Units – Capacity Name: Answer Key - Day 41

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _1,000__

2.) Liters (L) in a Kiloliter (KL) 1,000

3.) 1 milliliter in a Liter __1/1,000_

4.) 1 Liter in a Kiloliter _1/1,000_

7.) 2,000 ml = __2__ Liters

8.) 5 KL = __5,000__ Liters

9.) 500 ml = ___0.5 or 1/2__ Liter

10.) 1,500 ml = _1.5 or 1 1/2_ Liters

5.) 1 Liter is about the size of a _1 quart (32 ounces) in the customary measurement system.

6.) A can of soda is this many milliliters _333 ml or 1/3 Liter_ (or about a third of 1 Liter).

Metric Units – Capacity Name: Answer Key - Day 42

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _1,000_

2.) Liters (L) in a Kiloliter (KL) _1,000_

3.) 1 milliliter in a Liter _1/1,000__

4.) 1 Liter in a Kiloliter _1/1,000_

7.) 3,000 ml = ___3_ Liters

8.) 4 KL = ___4,000__ Liters

9.) 500 ml = _0.5 or 1/2_ Liter

10.) 2,500 ml = _2.5 or 2 1/2_ Liters

5.) 1 Liter is about the size of a _1 quart (32 ounces) _ in the customary measurement system.

6.) A can of soda is this many milliliters _333 ml or 0.333 Liter _ (or about a third of 1 Liter).

Metric Units – Capacity Name: Answer Key - Day 43

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _1,000_

2.) Liters (L) in a Kiloliter (KL) _1,000_

3.) 1 milliliter in a Liter _1/1,000_

4.) 1 Liter in a Kiloliter _1/1,000_

7.) 8,000 ml = __8_ Liters

8.) 7 KL = __7,000_ Liters

9.) 333 ml = _0.333 or 1/3_ Liter

10.) 4,500 ml = 4.5 or 4 1/2 Liters

5.) 1 Liter is about the size of a _1 quart (32 ounces) _ in the customary measurement system.

6.) A can of soda is this many milliliters _333 ml or 0.333 Liter _ (or about a third of 1 Liter).

Metric Units – Capacity – ANSWER KEY

Metric Units – Capacity Name: Answer Key - Day 44

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _1,000_

2.) Liters (L) in a Kiloliter (KL) _1,000_

3.) 4,000 L = ___4___ KL

4.) _3,750_ml = 3.75 L

5.) A can of soda is this many milliliters __333 ml__ (or about a third of 1 Liter).

6.) Paul and Jose each drink a can of soda. How many total milliliters is this? __666 ml__

7.) 9,500 ml = __9.5_ Liters

8.) 10 KL = __10,000_ Liters

9.) 333 ml = ___0.333__ Liters

10.) 750 ml = __0.750__ Liters

Metric Units – Capacity Name: Answer Key - Day 45

Daily Math 5 minute Review on Measurement

1.) Milliliters (ml) in a Liter (L) _1,000_

2.) Liters (L) in a Kiloliter (KL) _1,000_

3.) __3,450__ L = 3.45 KL

4.) __9,010__ml = 9.010 L

5.) 1 gallon of gas is exactly 4 quarts. About how many Liters in one gallon of gas? __4 Liters__

6.) Paul and Jose each drink a can of soda. How many total milliliters is this? __666 ml__

7.) 2,500 ml = __2.5_ Liters

8.) 20 KL = __20,000__ Liters

9.) 333 ml = __0.333_ Liters

10.) 750 ml = __0.750_ Liters

Metric Units – Capacity Name: Answer Key - Day 46

Daily Math 5 minute Review on Measurement

1.) 4.5 KL = __4,500___ L

2.) 3.5 L = __3,500__ ml

3.) _4,752__ L = 4.752 KL

4.) _10,500__ml = 10.5 L

5.) 1 gallon of gas is exactly 4 quarts. About how many Liters in two gallons of gas? _2 x 4 = 8 L___

6.) Joe, Maria and Bill drink each drink a can of soda. How many total milliliters is this? 1,000 ml

7.) 4,500 ml = _4.5_ Liters

8.) 50 KL = _50,000__ Liters

9.) 333 ml = __0.333_ Liters

10.) 750 ml = _0.750_ Liters

Metric Units – Capacity – ANSWER KEY

Metric Units – Capacity Name: Answer Key - Day 47

Daily Math 5 minute Review on Measurement

1.) 1.5 KL = ___**1,500**__ L

2.) 0.5 L = __**500**_ ml

3.) ___**500**___ L = 0.5 KL

4.) __**1,500**__ml = 1.5 L

7.) 6,500 ml = __**6.5 or 6 1/2**_Liters

8.) 20 KL = __**20,000**_ Liters

9.) 333 ml = __**0.333**_ Liters

10.) 250 ml = __**0.250**__ Liters

5.) It takes 40 gallons of water to fill a bathtub. About how many Liters of water is this? **40 x 4 = 160 L**

6.) A **six** pack of Mt Dew is purchased. About how many total milliliters or Liters is this? _**2 L** _

Metric Units – Capacity Name: Answer Key - Day 48

Daily Math 5 minute Review on Measurement

1.) 2.5 KL = __**2,500**__ L

2.) 0.5 L = ___**500**__ ml

3.) ___**500**__ L = 0.5 KL

4.) __**8,500**__ml = 8.5 L

7.) 3,250 ml = _**3.250**_ Liters

8.) 50 KL = _**50,000**__ Liters

9.) 333 ml = __**0.333**__ Liters

10.) 750 ml = __**0.750**_ Liters

5.) It takes 40 gallons of water to fill a bathtub. About how many Liters of water is this? **40 x 4 = 160 L**

6.) A **six** pack of Coca-Cola is purchased. About how many total milliliters or Liters is this? _**2 L** _

Metric Units – Capacity Name: Answer Key - Day 49

Daily Math 5 minute Review on Measurement

1.) 8.5 KL = __**2,500**__ L

2.) 0.5 L = __**500**__ ml

3.) ___**500**__ L = 0.5 KL

4.) __**6,250**_ml = 6.25 L

7.) 3,500 ml = __**3.500**_ Liters

8.) 25 KL = _**25,000**__ Liters

9.) 333 ml = _**0.333**__ Liters

10.) 580 ml = __**0.580**_ Liters

5.) A water tower's capacity will be measured in what units? a.) Liters **b.) Kiloliters** c.) Milliliters

6.) A **six** pack of Dr. Pepper is purchased. About how many total Liters is this? __**2 L** __ Liters

Metric Units – Capacity – ANSWER KEY

Metric Units – Capacity Name: Answer Key - Day 50

Daily Math 5 minute Review on Measurement

1.) 3.5 KL = ___**3,500**__ L

2.) 0.5 L = ___**500**__ ml

3.) ___**500**__ L = 0.5 KL

4.) ___**8,500**__ml = 8.5 L

7.) 5,500 ml = __**5.5**_ Liters

8.) 15 KL = __**15,000**__ Liters

9.) 333 ml = __**0.333**__ Liters

10.) 750 ml = __**0.750**_ Liters

5.) A bathtub's capacity will be measured in what units? **a.) Liters** b.) Kiloliters c.) Milliliters

6.) 3 cans of soda are drank. About how many total milliliters is this? ___**1,000** __ milliliters

Measurement

Metric – Mass

4th through 8th Grades

10 Day Unit

of 60 Day Measurement Program

5 – 10 Minutes Per Day

Metric Measurement – Mass Section

4th - 8th Grade Five-Minute Daily Measurement Warm-Ups

This 10 day program (per section) is intended to provide basic skill levels in converting and understanding magnitudes in the following measurement areas/sections:

1.) Customary Measurement (Length): inches, feet, yards and miles.

2.) Customary Measurement (Capacity – Volume): ounces, cups, pints, quarts and gallons.

3.) Customary Measurement (Weight): ounces (dry), pounds and tons.

4.) Metric Measurement (Length): millimeters (mm), centimeters (cm), meters (m) and kilometers (km)

5.) Metric Measurement (Capacity): milliliters (ml), Liters (L) and Kiloliters (kl)

6.) Metric Measurement (Mass): milligram (mg), grams (g) and kilograms (kg)

The warm-ups are designed so the children can readily pick them up as they enter the classroom or the warm-ups are distributed normally through classroom procedures. The teacher must make minimal copies, since the sheets may be separated into 3 student sheets per page. Hence, with 24 students – only 8 Xerox copies need to be made for an entire classroom. An answer key is provided at the end of the packet.

Section 6.) Metric Measurement (Mass): milligram (mg), grams (g) and kilograms (kg) are <u>included</u> in this instructional packet.

Metric Measurements in mass are challenging for many 5th – 8th graders due to their unfamiliarity of magnitudes on the mass of a milligrams, grams and Kilograms. Consequently, in order to ingrain the mass of these units, the student should will need to become adept at approximate masses of familiar objects. The math and movement of the decimal point in metric makes the conversion between equivalent metric units fairly straight forward; however, the student should be instructed to ask herself/himself after each conversion to evaluate the reasonableness of their solution. Using the relative guidelines of known objects summarized in the next paragraph should make this much easier for every student. However, the more the students use a triple beam balance to compute the mass of various objects, the more adept they will become visualizing and estimating the relative magnitudes of metric mass units.

It is recommended that the teacher use visual aides to assist students (a kilogram mass) to assist them in visualizing the magnitude or mass of 1 kg, and repetitively requiring students to understand that there are 1,000 grams in 1 Kilogram and so forth. Also, the teacher should use a factor of two (2) to estimate the mass of an object in Kilograms from the weight in pounds. Example: If a person weighs 200 pounds, they possess an approximate mass of <u>about</u> 100 Kilograms. In order for the student to better understand grams, it is also recommended the teacher use a United States nickel as a standard. A United States nickel has a mass of exactly 5.000 grams. Hence, 5 cents and 5.000 grams…very easy to remember for a young student. So if a pencil seems to feel about the weight/mass of 4 nickels, then its mass is about (4 x 5.000) or 20 grams. (FYI for teacher knowledge only: 1 kilogram = 2.2 pounds or 454 grams = 1 pound)

When students struggle with certain problem types in the daily warm-ups, it is a clear indication that the students need more practice with that concept, not less. It is advisable for the teacher to present quick practice examples in math class or during transition periods until students master that concept or problem type. Much practice will be required for mastery in metric measurement since the students are not as familiar with these units of measure in this country…even though it is much easier to convert between equivalent metric units than customary.

It is also recommended to use these short daily measurements in conjunction with a Space Repetition System classroom instructional methodology

Name:_____

Daily Math 5 minute Review on Measurement

1.) Grams in a Kilogram = _____

2.) Milligrams in a Gram = _____

3.) 1 Gram = _____ Kilogram

4.) 1 Milligram = _____ Gram

5.) About what is your body **weight** in **pounds**? _____

6.) Divide your **body weight** by **2** and your **body mass** is **about** _____ **kilograms**?

7.) 2 kilograms = _____ grams

8.) 3,000 grams = _____ Kilograms

9.) 5,000 milligrams = _____ grams

10.) ½ kilogram = _____grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) Grams in a Kilogram = _____

2.) Milligrams in a Gram = _____

3.) 1 Gram = _____ Kilogram

4.) 1 Milligram = _____ Gram

5.) About what is your body **weight** in **pounds**? _____

6.) Divide your **body weight** by **2** and your **body mass** is **about** _____ **kilograms**?

7.) 2 kilograms = _____ grams

8.) 3,000 grams = _____ Kilograms

9.) 5,000 milligrams = _____ grams

10.) ½ kilogram = _____grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) Grams in a Kilogram = _____

2.) Milligrams in a Gram = _____

3.) 1 Gram = _____ Kilogram

4.) 1 Milligram = _____ Gram

5.) About what is your body **weight** in **pounds**? _____

6.) Divide your **body weight** by **2** and your **body mass** is **about** _____ **kilograms**?

7.) 2 kilograms = _____ grams

8.) 3,000 grams = _____ Kilograms

9.) 5,000 milligrams = _____ grams

10.) ½ kilogram = _____grams

5.) About what is your body **weight** in **pounds**? _____

6.) Divide your **body weight** by **2** and your **body mass** is **about** _____ **kilograms**?

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 1 gram = _____ kilogram

4.) 1 milligram = _____ gram

5.) About what is your **body weight** in **pounds**? _____

6.) Divide your **body weight** by **2** and your **body mass** is **about** _____ **kilograms**?

7.) 3 Kilograms = _____ grams

8.) 6,000 grams = _____ Kilograms

9.) 3,000 milligrams = _____ grams

10.) ½ kilogram = _____ grams

11.) 1 ½ kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 1 gram = _____ kilogram

4.) 1 milligram = _____ gram

5.) About what is your **body weight** in **pounds**? _____

6.) Divide your **body weight** by **2** and your **body mass** is **about** _____ **kilograms**?

7.) 3 Kilograms = _____ grams

8.) 6,000 grams = _____ Kilograms

9.) 3,000 milligrams = _____ grams

10.) ½ kilogram = _____ grams

11.) 1 ½ kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 1 gram = _____ kilogram

4.) 1 milligram = _____ gram

5.) About what is your **body weight** in **pounds**? _____

6.) Divide your **body weight** by **2** and your **body mass** is **about** _____ **kilograms**?

7.) 3 Kilograms = _____ grams

8.) 6,000 grams = _____ Kilograms

9.) 3,000 milligrams = _____ grams

10.) ½ kilogram = _____ grams

11.) 1 ½ kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 1 gram = _____ kilogram

4.) 1 milligram = _____ gram

5.) About what is the **weight** of your classroom chair in **pounds**? _____

6.) Divide the **weight** of your classroom chair by **2** and the chair's **mass** is **about** _____ **kilograms**.

7.) 5 Kilograms = _____ grams

8.) 10,000 grams = _____ Kilograms

9.) 3,000 milligrams = _____ grams

10.) 2 ½ kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 1 gram = _____ kilogram

4.) 1 milligram = _____ gram

5.) About what is the **weight** of your classroom chair in **pounds**? _____

6.) Divide the **weight** of your classroom chair by **2** and the chair's **mass** is **about** _____ **kilograms**.

7.) 5 Kilograms = _____ grams

8.) 10,000 grams = _____ Kilograms

9.) 3,000 milligrams = _____ grams

10.) 2 ½ kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 1 gram = _____ kilogram

4.) 1 milligram = _____ gram

5.) About what is the **weight** of your classroom chair in **pounds**? _____

6.) Divide the **weight** of your classroom chair by **2** and the chair's **mass** is **about** _____**kilograms**.

7.) 5 Kilograms = _____ grams

8.) 10,000 grams = _____ Kilograms

9.) 3,000 milligrams = _____ grams

10.) 2 ½ kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 2,000 grams = _____ kilograms

4.) 4,000 milligram = _____ grams

5.) About what is the **weight** of your classroom desk in **pounds**? _____

6.) Divide the **weight** of your classroom desk by **2** and the desk's **mass** is **about** _____ **kilograms**.

7.) 3.25 Kilograms = _____ grams

8.) 7,500 grams = _____ Kilograms

9.) 3,500 milligrams = _____ grams

10.) 4 ½ or 4.5 kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 2,000 grams = _____ kilograms

4.) 4,000 milligram = _____ grams

5.) About what is the **weight** of your classroom desk in **pounds**? _____

6.) Divide the **weight** of your classroom desk by **2** and the desk's **mass** is **about** _____ **kilograms**.

7.) 3.25 Kilograms = _____ grams

8.) 7,500 grams = _____ Kilograms

9.) 3,500 milligrams = _____ grams

10.) 4 ½ or 4.5 kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 2,000 grams = _____ kilograms

4.) 4,000 milligram = _____ grams

5.) About what is the **weight** of your classroom desk in **pounds**? _____

6.) Divide the **weight** of your classroom desk by **2** and the desk's **mass** is **about** _____ **kilograms**.

7.) 3.25 Kilograms = _____ grams

8.) 7,500 grams = _____ Kilograms

9.) 3,500 milligrams = _____ grams

10.) 4 ½ or 4.5 kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 4,500 grams = _____ kilograms

4.) 2,250 milligram = _____ grams

5.) What is the mass of your pencil in **grams**? _____

6.) What is the **weight** of your principal in **pounds**? _____About what is their **mass** in _____ **kilograms**.

7.) 6.75 Kilograms = _____ grams

8.) 2,400 grams = _____ Kilograms

9.) 4,900 milligrams = _____ grams

10.) 2 ½ or 2.5 kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 4,500 grams = _____ kilograms

4.) 2,250 milligram = _____ grams

5.) What is the mass of your pencil in **grams**? _____

6.) What is the **weight** of your principal in **pounds**? _____About what is their **mass** in _____ **kilograms**.

7.) 6.75 Kilograms = _____ grams

8.) 2,400 grams = _____ Kilograms

9.) 4,900 milligrams = _____ grams

10.) 2 ½ or 2.5 kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 4,500 grams = _____ kilograms

4.) 2,250 milligram = _____ grams

5.) What is the mass of your pencil in **grams**? _____

6.) What is the weight of your principal in **pounds**? _____ About what is their **mass** in _____ **kilograms**.

7.) 6.75 Kilograms = _____ grams

8.) 2,400 grams = _____ Kilograms

9.) 4,900 milligrams = _____ grams

10.) 2 ½ or 2.5 kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 4,396 grams = _____ kilograms

4.) 3,105 milligram = _____ grams

5.) What is the mass of a two paper clips in **grams**? _____

6.) About what is the **weight of a car in pounds?** _____ About what is the car's **mass** in **kilograms?_____**.

7.) 0.75 Kilograms = _____ grams (think)

8.) 1,110 grams = _____ Kilograms

9.) 4 grams = _____ milligrams

10.) 5 ½ or 5.5 kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 4,396 grams = _____ kilograms

4.) 3,105 milligram = _____ grams

5.) What is the mass of a two paper clips in **grams**? _____

6.) About what is the **weight of a car in pounds?** _____ About what is the car's **mass** in **kilograms?_____**.

7.) 0.75 Kilograms = _____ grams (think)

8.) 1,110 grams = _____ Kilograms

9.) 4 grams = _____ milligrams

10.) 5 ½ or 5.5 kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 4,396 grams = _____ kilograms

4.) 3,105 milligram = _____ grams

5.) What is the mass of a two paper clips in **grams**? _____

6.) About what is the **weight of a car in pounds?** _____ About what is the car's **mass** in **kilograms?_____**.

7.) 0.75 Kilograms = _____ grams (think)

8.) 1,110 grams = _____ Kilograms

9.) 4 grams = _____ milligrams

10.) 5 ½ or 5.5 kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 4.51 Kilograms = _____ grams

4.) 3,600 milligram = _____ grams

7.) 0.5 Kilograms = _____ grams (think)

8.) 1,750 grams = _____ Kilograms

9.) 9 grams = _____ milligrams

10.) 7 ½ or 7.5 kilograms = _____ grams

5.) What is the mass of the metal key that opens the classroom door in **grams**? _____

6.) About what is the **weight of a laptop computer in pounds?** _____

About what is this computer's **mass** in **kilograms? _____**.

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 4.51 Kilograms = _____ grams

4.) 3,600 milligram = _____ grams

7.) 0.5 Kilograms = _____ grams (think)

8.) 1,750 grams = _____ Kilograms

9.) 9 grams = _____ milligrams

10.) 7 ½ or 7.5 kilograms = _____ grams

5.) What is the mass of the metal key that opens the classroom door in **grams**? _____

6.) About what is the **weight of a laptop computer in pounds?** _____

About what is this computer's **mass** in **kilograms? _____**.

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 4.51 Kilograms = _____ grams

4.) 3,600 milligram = _____ grams

7.) 0.5 Kilograms = _____ grams (think)

8.) 1,750 grams = _____ Kilograms

9.) 9 grams = _____ milligrams

10.) 7 ½ or 7.5 kilograms = _____ grams

5.) What is the mass of the metal key that opens the classroom door in **grams**? _____

6.) About what is the **weight of a laptop computer in pounds?** _____

About what is this computer's **mass** in **kilograms? _____**.

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 1.9 Kilograms = _____ grams

4.) 8,580 milligram = _____ grams

5.) What is the mass of a pencil in **grams**? _____

6.) About what is your body **weight in pounds?** _____

About what is your body's **mass** in **kilograms?** _____.

7.) 0.25 Kilograms = _____ grams (think)

8.) 5,000 grams = _____ Kilograms

9.) 9.5 grams = _____ milligrams

10.) 3 ½ or 3.5 kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 1.9 Kilograms = _____ grams

4.) 8,580 milligram = _____ grams

5.) What is the mass of a pencil in **grams**? _____

6.) About what is your body **weight in pounds?** _____

About what is your body's **mass** in **kilograms?** _____.

7.) 0.25 Kilograms = _____ grams (think)

8.) 5,000 grams = _____ Kilograms

9.) 9.5 grams = _____ milligrams

10.) 3 ½ or 3.5 kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _____

2.) milligrams in a Gram = _____

3.) 1.9 Kilograms = _____ grams

4.) 8,580 milligram = _____ grams

5.) What is the mass of a pencil in **grams**? _____

6.) About what is your body **weight in pounds?** _____

About what is your body's **mass** in **kilograms?** _____.

7.) 0.25 Kilograms = _____ grams (think)

8.) 5,000 grams = _____ Kilograms

9.) 9.5 grams = _____ milligrams

10.) 3 ½ or 3.5 kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) _____ grams = 12 Kilograms

2.) 900 milligrams = _____ grams (think)

3.) 8.9 Kilograms = _____ grams

4.) 8,300 milligram = _____ grams

5.) What is the mass of a 5 cent nickel in **grams**? _____

6.) About what is your body **weight in pounds?** _____

About what is your body's **mass** in **kilograms?** _____.

7.) 0.9 Kilograms = _____ grams (think)

8.) 9,000 grams = _____ Kilograms

9.) 9.1 grams = _____ milligrams

10.) 9 ½ or 9.5 kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) _____ grams = 12 Kilograms

2.) 900 milligrams = _____ grams (think)

3.) 8.9 Kilograms = _____ grams

4.) 8,300 milligram = _____ grams

5.) What is the mass of a 5 cent nickel in **grams**? _____

6.) About what is your body **weight in pounds?** _____

About what is your body's **mass** in **kilograms?** _____.

7.) 0.9 Kilograms = _____ grams (think)

8.) 9,000 grams = _____ Kilograms

9.) 9.1 grams = _____ milligrams

10.) 9 ½ or 9.5 kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) _____ grams = 12 Kilograms

2.) 900 milligrams = _____ grams (think)

3.) 8.9 Kilograms = _____ grams

4.) 8,300 milligram = _____ grams

5.) What is the mass of a 5 cent nickel in **grams**? _____

6.) About what is your body **weight in pounds?** _____

About what is your body's **mass** in **kilograms?** _____.

7.) 0.9 Kilograms = _____ grams (think)

8.) 9,000 grams = _____ Kilograms

9.) 9.1 grams = _____ milligrams

10.) 9 ½ or 9.5 kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) _____ grams = 3.2 Kilograms

2.) 300 milligrams = _____ Grams (think)

3.) 8.9 Kilograms = _____ grams

4.) 7,500 milligram = _____ grams

5.) What is the mass of a 5 cent nickel in **grams**? _____

6.) About what is the weight of a car **in pounds?** _____

About what is the **mass** of the car in **kilograms?** _____.

7.) 0.2 Kilograms = _____ grams (think)

8.) 2,000 grams = _____ Kilograms

9.) 2.1 grams = _____ milligrams

10.) 2 ½ or 2.5 kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) _____ grams = 3.2 Kilograms

2.) 300 milligrams = _____ Grams (think)

3.) 8.9 Kilograms = _____ grams

4.) 7,500 milligram = _____ grams

5.) What is the mass of a 5 cent nickel in **grams**? _____

6.) About what is the weight of a car **in pounds?** _____

About what is the **mass** of the car in **kilograms?** _____.

7.) 0.2 Kilograms = _____ grams (think)

8.) 2,000 grams = _____ Kilograms

9.) 2.1 grams = _____ milligrams

10.) 2 ½ or 2.5 kilograms = _____ grams

Name:_____

Daily Math 5 minute Review on Measurement

1.) _____ grams = 3.2 Kilograms

2.) 300 milligrams = _____ Grams (think)

3.) 8.9 Kilograms = _____ grams

4.) 7,500 milligram = _____ grams

5.) What is the mass of a 5 cent nickel in **grams**? _____

6.) About what is the weight of a car **in pounds?** _____

About what is the **mass** of the car in **kilograms?** _____.

7.) 0.2 Kilograms = _____ grams (think)

8.) 2,000 grams = _____ Kilograms

9.) 2.1 grams = _____ milligrams

10.) 2 ½ or 2.5 kilograms = _____ grams

Answer Key

Measurement

Metric – Mass

4th through 8th Grades

10 Day Unit

of 60 Day Measurement Program

5 – 10 Minutes Per Day

Metric Units – Mass – ANSWER KEY

Metric Units – Mass Name: Answer Key - Day 51

Daily Math 5 minute Review on Measurement

1.) Grams in a Kilogram = _1,000_

2.) Milligrams in a Gram = _1,000_

3.) 1 Gram = _1/1,000_ Kilogram

4.) 1 Milligram = 1/1,000_ Gram

7.) 2 kilograms = _2,000_ grams

8.) 3,000 grams = __3__ Kilograms

9.) 5,000 milligrams = __5__ grams

10.) ½ kilogram = _500_grams

5.) About what is your **body weight** in pounds? __varies (Ex. 100 pounds)__ relates a known weight for a student to a magnitude in kilograms. (2 pounds is about 1 kilogram)

6.) Divide your **body weight** by **2** and your **body mass** is **about** _varies – (50)__**kilograms**?

Metric Units – Mass Name: Answer Key - Day 52

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = 1,000_

2.) milligrams in a Gram = _1,000_

3.) 1 gram = _1/1,000_ kilogram

4.) 1 milligram = 1/1,000_gram

7.) 3 Kilograms = _3,000__ grams

8.) 6,000 grams = __6_ Kilograms

9.) 3,000 milligrams = __3_ grams

10.) ½ kilogram = _500 grams

5.) About what is your body **weight** in **pounds**? _varies_ **11.)** 1 ½ kilograms = 1,500__ grams

6.) Divide your **body weight** by **2** and your **body mass** is **about** _varies_ **kilograms**?

Metric Units – Mass Name: Answer Key - Day 53

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _1,000

2.) milligrams in a Gram = 1,000_

3.) 1 gram = _1/1,000 kilogram

4.) 1 milligram = 1/1,000 gram

7.) 5 Kilograms = __5,000_ grams

8.) 10,000 grams = __10_ Kilograms

9.) 3,000 milligrams = __3__ grams

10.) 2 ½ kilograms = __2.5__ grams

5.) About what is the **weight** of your classroom chair in **pounds**? _varies _

Metric Units – Mass – ANSWER KEY

6.) Divide the **weight** of your classroom chair by **2** and the chair's **mass** is **about** _ varies _ **kilograms**.

Metric Units – Mass Name: Answer Key - Day 54

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _1,000

2.) milligrams in a Gram = _1,000_

3.) 2,000 grams = ___2__ kilograms

4.) 4,000 milligram = __4__ grams

7.) 3.25 Kilograms = _3,250__ grams

8.) 7,500 grams = _7.5_ Kilograms

9.) 3,500 milligrams = _3.5_ grams

10.) 4 ½ or 4.5 kilograms = __4,500__ grams

5.) About what is the **weight** of your classroom desk in **pounds**? _ varies _ **(24 pounds)**

6.) Divide the **weight** of your classroom desk by **2** and the desk's **mass** is **about** _ varies - 12 **kilograms**.

Metric Units – Mass Name: Answer Key - Day 55

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _1,000_

2.) milligrams in a Gram = _1,000_

3.) 4,500 grams = _4.5__ kilograms

4.) 2,250 milligram = 2.250_ grams

7.) 6.75 Kilograms = ___6,750_ grams

8.) 2,400 grams = _2.400_ Kilograms

9.) 4,900 milligrams = _4.900_ grams

10.) 2 ½ or 2.5 kilograms = __2,500__ grams

5.) What is the mass of your pencil in **grams**? _varies_ **3 or 4 nickels??? Hence, 15 or 20 grams.**

6.) What is the weight of your principal in pounds? _ varies _ About what is their **mass** in varies **kilograms**.

Metric Units – Mass Name: Answer Key - Day 56

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _1,000

2.) milligrams in a Gram = _1,000_

3.) 4,396 grams = _4.396 kilograms

4.) 3,105 milligram = _3.105_ grams

7.) 0.75 Kilograms = _0.750__ grams (think)

8.) 1,110 grams = _1.110_ Kilograms

9.) 4 grams = _4,000__ milligrams

10.) 5 ½ or 5.5 kilograms = _5,500_ grams

5.) What is the mass of a 3 paper clips in **grams**? _ varies_ **(approximately 2 nickels = 10 grams)**

Metric Units – Mass – ANSWER KEY

6.) About what is the **weight of a car in pounds?** 3,000 About what is the car's **mass** in **kilograms?** 1,500.

Metric Units – Mass Name: Answer Key - Day 57

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _1,000_

2.) milligrams in a Gram = _1,000_

3.) 4.51 Kilograms = _4,510_ grams

4.) 3,600 milligram = _3.6_ grams

7.) 0.5 Kilograms = _500__ grams (think)

8.) 1,750 grams = __1.75__ Kilograms

9.) 9 grams = __9,000_ milligrams

10.) 7 ½ or 7.5 kilograms = _7,500_ grams

5.) What is the mass of the metal key that opens the classroom door in **grams**? _varies_ **(6 to 9 grams)**

6.) About what is the **weight of a laptop computer in pounds?** _5 to 10 pounds on average_

About what is this computer's **mass** in **kilograms?** _2.5 to 5 kg_.

Metric Units – Mass Name: Answer Key - Day 58

Daily Math 5 minute Review on Measurement

1.) grams in a Kilogram = _1,000_

2.) milligrams in a Gram = _1,000_

3.) 1.9 Kilograms = _1,900__ grams

4.) 8,580 milligram = _8.58 grams

7.) 0.25 Kilograms = __250__ grams (think)

8.) 5,000 grams = __5__ Kilograms

9.) 9.5 grams = ___9,500__ milligrams

10.) 3 ½ or 3.5 kilograms = _3,500__ grams

5.) What is the mass of a pencil in **grams**? _varies – between 5 and 15 grams_

6.) About what is your body **weight in pounds?** _varies – Example: 120 pounds_

7.) About what is your body's **mass** in **kilograms?** _ varies – Example: 60 Kilos_

Metric Units – Mass Name: Answer Key - Day 59

Daily Math 5 minute Review on Measurement

1.) 12,000 grams = 12 Kilogram

2.) 900 milligrams = __0.9_ Gram (think)

3.) 8.9 Kilograms = _8,900_ grams

4.) 8,300 milligram = __8.3_ grams

7.) 0.9 Kilograms = __900__ grams (think)

8.) 9,000 grams = _9__ Kilograms

9.) 9.1 grams = _9,100_ milligrams

10.) 9 ½ or 9.5 kilograms = _9,500_ grams

5.) What is the mass of a 5 cent nickel in **grams**? _ 5.000 grams exactly_

6.) About what is your body **weight in pounds?** _varies – Example: 120 pounds_

Metric Units – Mass – ANSWER KEY

About what is your body's **mass** in **kilograms? _ varies – Example: 60 Kilos_**

Metric Units – Mass Name: Answer Key - Day 60

Daily Math 5 minute Review on Measurement

1.) __**3,200**_ grams = 3.2 Kilograms

2.) 300 milligrams = __**0.3**_ Grams (think)

3.) 8.9 Kilograms = ___**8,900**_ grams

4.) 7,500 milligram = _**7.5**_ grams

7.) 0.2 Kilograms = __**200**__ grams (think)

8.) 2,000 grams = ____**2**__ Kilograms

9.) 2.1 grams = _ **2,100**__ milligrams

10.) 2 ½ or 2.5 kilograms = _**2,500**__ grams

5.) What is the mass of a 5 cent nickel in **grams**? _ **5.000 grams exactly**_

6.) About what is the weight of a car **in pounds? _ Varies…but about 3,000 pounds**_

About what is the **mass** of the car in **kilograms? _ Varies…but about 1,500 Kilograms**.