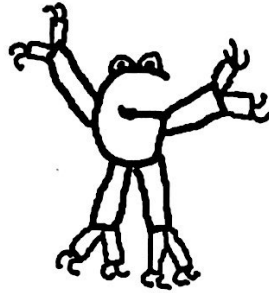


Weekly Math

HOMework

March 9 - 13



DUE TUESDAY: "Weight and Mass" (2 pgs - circled problems only)

DUE WEDNESDAY: "Capacity" (2 pgs - circled problems only)

DUE THURSDAY: "Length" (2 pgs - circled problems only)

My timed test on FRIDAY is on the _____ facts!

Class website: <http://mrsbucksmathclass.weebly.com>

Name _____

Parent Signature _____

Weight + Mass (Due Tues.)

Lesson 3: Weight and Mass

Independent Practice

Key Words

gram (g)
kilogram (kg)
ounce (oz)
pound (lb)

The customary units of weight include the **pound** and the **ounce**.

Units of Weight
1 pound (lb) = 16 ounces (oz)

The metric units of mass include the **kilogram** and the **gram**.

Units of Mass
1 kilogram (kg) = 1,000 grams (g)

You can use addition, subtraction, multiplication, and division to solve problems about weight or mass. You can multiply to convert from a larger unit of weight or mass to a smaller unit of weight or mass.

Example:

$$5 \text{ lb} = \underline{\quad} \text{ oz}$$

Think: $1 \text{ lb} = 16 \text{ oz}$

$$5 \times 16 = \begin{array}{r} +316 \\ \times 5 \\ \hline 80 \end{array}$$

80 oz

Circled problems only! 😊

Complete each equivalent statement.

3. $3 \text{ lb} = \underline{\quad} \text{ oz}$

4. $6 \text{ lb} = \underline{\quad} \text{ oz}$

5. $8 \text{ lb} = \underline{\quad} \text{ oz}$

6. $2 \text{ lb } 9 \text{ oz} = \underline{\quad} \text{ oz}$

7. $4 \text{ lb } 3 \text{ oz} = \underline{\quad} \text{ oz}$

8. $4 \text{ kg} = \underline{\quad} \text{ g}$

9. $2,000 \text{ g} = \underline{\quad} \text{ kg}$

10. $9 \text{ kg} = \underline{\quad} \text{ g}$

11. Each ball in a bag of 6 balls has the same mass. The total mass of the balls is 810 grams. What is the mass of each ball?
- _____

12. Betsy's puppy weighed 14 pounds in April. By June, her puppy gained 46 ounces. How much did Betsy's puppy weigh in June? Express the answer in pounds and ounces.
- _____

Ask Yourself

Are the units metric or customary?

Which equivalence do I need to use?



Weight and mass (due Tues.)

Use equivalent units of weight and mass to complete the tables.

13.

Pounds	Ounces
6	$16 \times 6 =$
7	$16 \times 7 =$
8	
9	
10	

14.

Kilograms	Grams
1	$1 \times 1,000 =$
2	$2 \times 1,000 =$
3	
4	
5	

Solve each problem.

15. Devin bought a pumpkin and a squash. The pumpkin had a mass of 9 kilograms. The squash had a mass of 470 grams. How much greater was the mass of the pumpkin than the mass of the squash?
- _____
16. Ian buys 4 bags of apples. Each bag of apples weighs 3 pounds. How many ounces of apples does Ian buy?
- _____
17. Two rocks in Olivia's collection have a total mass of 2 kilograms. One of the rocks has a mass of 940 grams. What is the mass of the other rock?
- _____
18. Ron buys 2 pounds of peanuts, 5 ounces of cashews, 8 ounces of pecans, 12 ounces of almonds, and 1 pound 3 ounces of walnuts. What is the total weight of the nuts Ron buys?
- _____

Key Words

capacity
cup (c)
gallon (gal)
liquid volume
liter (L)
milliliter (mL)
pint (pt)
quart (qt)

Capacity, or **liquid volume**, is the amount of liquid that a container can hold. **Cups, pints, quarts, and gallons** are the customary units of capacity.

Customary Units of Capacity

1 pint (pt) = 2 cups (c)
1 quart (qt) = 2 pints
1 gallon (gal) = 4 quarts

Milliliters and liters are metric units of capacity or liquid volume.

Metric Units of Capacity

1 liter (L) = 1,000 milliliters (mL)

You can use addition, subtraction, multiplication, and division to solve problems about capacity. You can multiply to convert from a larger unit of capacity to a smaller unit of capacity.

Circled Problems Only! 😊

Complete each equivalent statement.

How many cups in one pint? 2...

3. $4 \text{ pt} = \underline{\quad} \text{ c}$ *so* $4 \times 2 = \underline{\quad} \text{ c}$ 4. $8 \text{ qt} = \underline{\quad} \text{ pt}$
5. $3 \text{ gal} = \underline{\quad} \text{ qt}$ 6. $8 \text{ gal} = \underline{\quad} \text{ pt}$
7. $16 \text{ pt} = \underline{\quad} \text{ c}$ 8. $24 \text{ gal} = \underline{\quad} \text{ qt}$
9. $9 \text{ pt} = \underline{\quad} \text{ c}$ 10. $6 \text{ L} = \underline{\quad} \text{ mL}$
11. $8 \text{ qt} = \underline{\quad} \text{ c}$ 12. $10 \text{ L} = \underline{\quad} \text{ mL}$

13. Bridget tries to drink 2 quarts of water every day. Today she has had 3 pints of water. How much more water does Bridget need to drink to reach her goal?

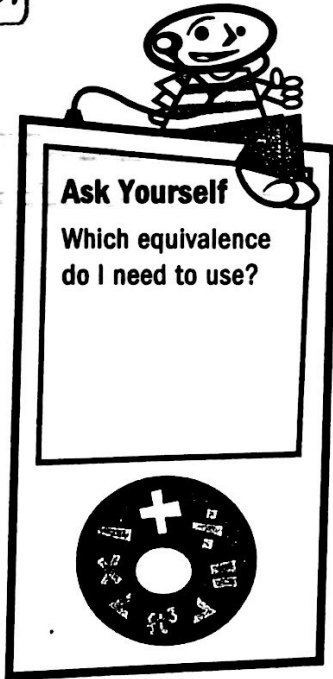
14. Chloe needs 3 quarts of broth to make soup. She has a measuring cup with a capacity of 1 pint. How many times must she fill the cup to measure enough broth for her soup?

* Example: *

$5 \text{ gal} = \underline{\quad} \text{ qt.}$

Think: $1 \text{ gal} = 4 \text{ qt.}$

$5 \times 4 =$
 20 qt.



Capacity (due Wed)

Use equivalent units of capacity to complete the tables.

1 gal = 4 qt

15.

Gallons	Quarts
1	1 × 4 =
2	2 × 4 =
3	
4	
5	
6	
7	

1 qt = 2 pt

16.

Quarts	Pints
1	1 × 2 =
2	2 × 2 =
3	
4	
5	
6	
7	

Solve each problem.

17. In science class, Arnold poured 97 milliliters of red-tinted water into a 1-liter jar. Then he filled the jar with blue-tinted water. How much blue-tinted water did Arnold pour into the jar?

18. For a birthday party, Mrs. Kelly plans to fill each of 8 glasses with 200 milliliters of punch. The punch is sold in 1-liter bottles. How many bottles of punch does Mrs. Kelly need? Explain.

19. An aquarium holds 10 gallons of water. How many full pitchers of water will Dai use to fill the aquarium if he uses a 2-quart pitcher to fill it?

Key Words

- centimeter (cm)
- foot (ft)
- inch (in.)
- kilometer (km)
- meter (m)
- mile (mi)
- yard (yd)

Inches, feet, yards, and miles are customary units of length.

Customary Units of Length
1 foot (ft) = 12 inches (in.)
1 yard (yd) = 3 feet
1 mile (mi) = 5,280 ft

Due Thursday!

Centimeters, meters, and kilometers are metric units of length.

Metric Units of Length
1 meter (m) = 100 centimeters (cm)
1 kilometer (km) = 1,000 meters

You can use addition, subtraction, multiplication, and division to solve problems about length. You can multiply to convert from a larger unit of length to a smaller unit of length.

Complete each equivalent statement. **Circled problems only!**

3. 4 yd = ____ ft

4. 3 ft = ____ in.

5. 2 mi = ____ ft

6. 3 yd = ____ ft

7. 8 ft = ____ in.

8. 9 km = ____ m

9. 5 m = ____ cm

10. 30 m = ____ cm

11. 72 km = ____ m

12. 60 km = ____ m

13. A blue whale is 78 feet long. How many inches is 78 feet?

14. A strip of land 5 kilometers long is divided into 4 sections of the same length. How many meters long is each section?



Ask Yourself

Which equivalence do I need to use?



Due Thursday

Use equivalent units of length to complete the tables.

1 yd = 3 ft

15

Yards	Feet
1	1 × 3 =
2	
3	
4	
5	
6	

1 m = 100 cm

16

Meters	Centimeters
1	1 × 100 =
2	
3	
4	
5	
6	

Solve each problem.

17. Lauren is 50 inches tall. Her mother is 5 feet 6 inches tall. How much taller is Lauren's mother?

18. A beetle is 2 centimeters long. A snake is 100 times as long as the beetle. How many meters long is the snake?

19. A spool has 5 meters of tubing. Owen cuts off a piece that is 225 centimeters long. How much tubing is left on the spool?

20. Nevena has a board that is 4 feet long. She cuts the entire board into pieces that are 8 inches long. How many pieces does she cut?
