

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Draw an area model and then solve using the standard algorithm. Use arrows to match the partial products from the area model to the partial products of the algorithm.

a.  $34 \times 21$

$$\begin{array}{r} 34 \\ \times 21 \\ \hline \end{array}$$

b.  $434 \times 21$

$$\begin{array}{r} 434 \\ \times 21 \\ \hline \end{array}$$

2. Solve using the standard algorithm.

a.  $431 \times 12 =$  \_\_\_\_\_

b.  $123 \times 23 =$  \_\_\_\_\_

c.  $312 \times 32 =$  \_\_\_\_\_

4. Convert. Use your Reference Sheet to remind you of the conversion factors. Show your work.

a. 27 ft = \_\_\_\_\_ in      d. 7 kg = \_\_\_\_\_ g      g. 3 km 85 m = \_\_\_\_\_ m

b. \_\_\_\_\_ oz = 54 lb      e. 4 mi = \_\_\_\_\_ yd      h. 2 qt = \_\_\_\_\_ pt  
= \_\_\_\_\_ ft      = \_\_\_\_\_ fl oz

c. \_\_\_\_\_ pt = 21 qt      f. \_\_\_\_\_ L = 9 kL      i. \_\_\_\_\_ oz = 24 lb 15 oz

e. Emily's pet snake is 5 feet long. Kristen's snake is 50 inches long. Kristen says her snake is much longer because 50 is so much bigger than 5. Is Kristen right? Why or why not?

f. Ben helps his dad make chicken soup. Their recipe makes 15 cups of soup. If they each eat 2 cups and freeze the rest, will the leftovers fit in a 64-ounce container?

Name \_\_\_\_\_

Date \_\_\_\_\_

1. Complete the chart below with the measurement equivalents.

Liters	Milliliters
1	
2	
3	
4	
10	
15	
30	
100	

Quarts	Gallons
	1
	2
	3
	4
	10
	15
	30
	100

2. Convert.

a. 18 yd = \_\_\_\_\_ ft      d. 72 kl = \_\_\_\_\_ L      g. 5 km 14 m = \_\_\_\_\_ m

b. \_\_\_\_\_ oz = 23 lb      e. 2 mi = \_\_\_\_\_ yd      h. 31 gal = \_\_\_\_\_ qt  
= \_\_\_\_\_ ft      = \_\_\_\_\_ pt

c. \_\_\_\_\_ cm = 64 m      f. \_\_\_\_\_ g = 35 kg      i. \_\_\_\_\_ fl oz = 56 c

## Reference Sheet

A detachable reference sheet will be included in each of the three test books. For the 2014 Grade 5 Common Core Mathematics Test, the reference sheet will look as follows:

### Grade 5 Mathematics Reference Sheet

#### CONVERSIONS

1 mile = 5,280 feet  
1 mile = 1,760 yards

1 pound = 16 ounces  
1 ton = 2,000 pounds

1 cup = 8 fluid ounces  
1 pint = 2 cups  
1 quart = 2 pints  
1 gallon = 4 quarts  
1 liter = 1,000 cubic centimeters

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#### FORMULAS

Right Rectangular Prism

$$V = Bh \text{ or } V = lwh$$

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