Name:	 Date:

## EVERYDAY MATHEMATICS—4th Grade Unit 7 Review: Multiplication of a Fraction by a Whole Number; Measurement

- 1) Solve the number stories using pictures or equations.
  - a. We have 6 cans of tomatoes in the cabinet.

Each can weighs  $\frac{5}{6}$  pound. How much do the cans weigh together?

Equation with unknown:

Answer: \_\_\_\_\_ pound(s)

- b. Jacob bikes <sup>7</sup>/<sub>8</sub> miles every day. How many miles does he bike in a week?

  Equation with unknown:

  Answer: \_\_\_\_\_ mile(s)
- c. Andrea's cookie recipe calls for  $\frac{2}{3}$  cups of chocolate chips. If she wants to quadruple the recipe, how many cups of chocolate chips will she need?

  Equation with unknown:

  Answer: \_\_\_\_\_ cup(s) of chocolate chips
- 2) List the next 4 multiples of  $\frac{1}{4}$  in order:

ਪ੍ਰ, ਪ੍ਰ, \_\_\_\_, \_\_\_, \_\_\_, \_\_\_\_, \_\_\_\_, \_\_\_\_,

b.  $\frac{5}{3}$  is a multiple of the unit fraction \_\_\_\_\_.

c.  $\frac{5}{2} = 5 * ____.$ 

Unit 7	Review	(continued)
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3) Convert.

3 gallons	quarts
4 quarts	pints
7 quarts	pints
4 pints	cups
14 pints	cups

4) John's recipe calls for 5 pints of chicken stock. He had 6 quarts of chicken stock and gave 4 pints away.

Does he have enough chicken stock for his recipe?\_\_\_\_\_

How many pints of chicken stock does he have?\_\_\_\_\_

5) Solve the number story and show how you solved the problem. Gabriella needs to make cupcakes for her club's bake sale. Each box of cupcake mix costs \$0.75. If she buys 5 or more boxes, they cost only \$0.56 each.

If she decides to buy 7 boxes, how much will she spend? \$ \_\_\_\_

Uni	it 7 Review (continued)
To	illa and Karissa work as cooks at two restaurants.  If The Burger Hut, they each work 4 hours per week.  Ogether they make \$192 each week at The Burger Hut.  If the Sandwich Joint, they each work 8 hours per week.  Ogether they earn \$304 each week at The Sandwich Joint.  Which restaurant pays more per hour to each girl? How much more per hour?
a	ı. Estimate:
b	. The pays more per hour. It pays \$ more per hour.
	. Equation(s) with unknown:
•	ead the number story. se the information to write an equation and solve the problem below.
E	mani is making ribbons for the dance show for the 4 dancers on her team. ach ribbon needs to be 3 yards long. mani has a 38 foot piece of ribbon.
٧	Vill she have any leftover ribbon?
Į:	f so, how much?(unit)
E	quation:

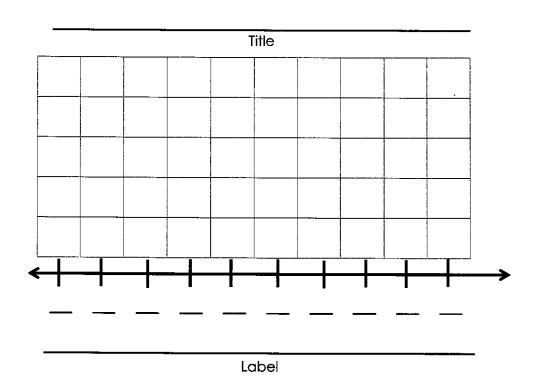
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**Unit 7 Review (continued)** 

10) For 4 days the Martin family kept track of how much water each member drank throughout the day. The measured to the nearest \$\frac{1}{8}\$ cup. Here are their results:

 $O, \frac{7}{8}, \frac{1}{8}, \frac{4}{8}, \frac{1}{8}, \frac{1}{8}, \frac{6}{8}, \frac{7}{8}, \frac{1}{8}, \frac{2}{8}, \frac{7}{8}, \frac{7}{8}$ 

a. Complete the line plot.



b. How many times did family members use  $\frac{7}{8}$  cups of water? \_\_\_\_\_

How much water is this all together? \_\_\_\_cup(s)

c. What was the greatest amount of water someone used in a day? \_\_\_\_ cup(s)

What amount of water per day was used most often? \_\_\_\_ cup(s)

What is the difference between those amounts?\_\_\_\_ cup(s)

Name: _*ANSWER KEY* Date:
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## EVERYDAY MATHEMATICS—4th Grade Unit 7 Review: Multiplication of a Fraction by a Whole Number; Measurement

- 1) Solve the number stories using pictures or equations.
  - a. We have 6 cans of tomatoes in the cabinet.

Each can weighs  $\frac{5}{6}$  pound. How much do the cans weigh together?

Equation with unknown:  $6 * \frac{5}{6} = p$ 

Answer: 5 pound(s)

b. Jacob bikes  $\frac{7}{8}$  miles every day. How many miles does he bike in a week? Equation with unknown:  $7 * \frac{7}{8} = m$ 

Answer:  $\underline{6^{\frac{1}{8}}}$  mile(s)

c. Andrea's cookie recipe calls for  $\frac{12}{3}$  cups of chocolate chips. If she wants to quadruple the recipe, how many cups of chocolate chips will she need? Equation with unknown:  $\frac{1}{3} = \frac{1}{3} = \frac{1}{3}$ 

Answer:  $6^{\frac{2}{3}}$  cup(s) of chocolate chips

2) List the next 4 multiples of  $\frac{1}{4}$  in order:

b.  $\frac{5}{3}$  is a multiple of the unit fraction  $\frac{1}{3}$ .

c.  $\frac{5}{2} = 5 * \frac{1}{2}$ .

Unit 7 Review (continued) \*ANSWER KEY\*

3) Convert.

3 gallons	<u>12</u> quarts
4 quarts	_8_ pints
7 quarts	<u>H</u> pints
4 pints	_8_ cups
14 pints	_28_ cups

4) John's recipe calls for 5 pints of chicken stock.

He had 6 quarts of chicken stock and gave 4 pints away.

Does he have enough chicken stock for his recipe? Yes

How many pints of chicken stock does he have? 8 pints

5) Solve the number story and show how you solved the problem. Gabriella needs to make cupcakes for her club's bake sale. Each box of cupcake mix costs \$0.75. If she buys 5 or more boxes, they cost only \$0.56 each.

If she decides to buy 7 boxes, how much will she spend? \$3.92

Possible solution:

$$\frac{56}{100}$$
 +  $\frac{56}{100}$  +  $\frac{56}{100}$  +  $\frac{56}{100}$  +  $\frac{56}{100}$  +  $\frac{56}{100}$  =  $\frac{392}{100}$ 

Unit 7 Review	(continued)	*ANSV	VER I	KEY*
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6) Ella and Karissa work as cooks at two restaurants.

At The Burger Hut, they each work 4 hours per week.

Together they make \$192 each week at The Burger Hut.

At the Sandwich Joint, they each work 8 hours per week.

Together they earn \$304 each week at The Sandwich Joint.

Which restaurant pays more per hour to each girl? How much more per hour?

a. Estimate: Possible answer: Burger: 200 / 2 = 100; 100 / 5 = \$20

b. The Burger Hut pays more per hour. It pays \$ 5 more per hour.

Possible solution:

$$(192/2/4) - (304/2/8) = n$$
  
 $24 - 19 = 5$ 

Possible answer:

c. Equation(s) with unknown: (192/2/4) - (304/2/8) = n

d. Look back at your estimate. Does your answer make sense?

Possible answer: Yes, my estimate said The Burger Hut would pay about \$5 more. My exact answer was also that The Burger Hut pays \$5 more per hour.

7) Read the number story.

Use the information to write an equation and solve the problem below.

Imani is making ribbons for the dance show for the 4 dancers on her team. Each ribbon needs to be 3 yards long. Imani has a 38 foot piece of ribbon.

Will she have any leftover ribbon? Yes

If so, how much? 2 Feet (unit)

Equation: Possible answer: 38/(3\*3) = x

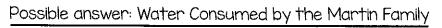
Unit 7 Review (continued) *ANSWER KEY*
8) a. If a dictionary weighs $\frac{1}{4}$ pound, what is the weight of 6 dictionaries?
$\frac{ \frac{1}{2} }{ \frac{1}{2} }$ pound(s) or $ \frac{2}{4} $
b. How many ounces is that? 24 ounce(s)
Dossible anguen Tknow that there are Karmana
c. How do you know? Possible answer: I know that there are 16 ounces
in I pound, plus half a pound is 8 ounces. I added 16 + 8 and got 24.
9) Draw the dot pattern that comes next and record the number of dots in the pattern.
1 · 3 · · 6 · · · · 10 · · · ·
With a description of the Doccible approach Thipppedoce by the
Write a description of the pattern. <u>Possible answer: It increases by I</u>
every time. For example, it starts with 1, then increases by 2, then
3, then 4, then 5. There are a total of 15 dots in the fifth pattern.
How do you how many dots to add each time? Possible answer: Add I dot to
each row and column each time. Add I more dot to the amount it
increases by each time (2, 3, 4, 5, 6)

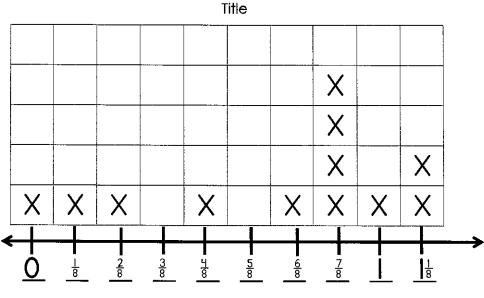
Unit 7 Review (continued) \*ANSWER KEY\*

10) For 4 days the Martin family kept track of how much water each member drank throughout the day. The measured to the nearest  $\frac{1}{8}$  cup. Here are their results:

 $0, \frac{7}{8}, \frac{1}{8}, \frac{4}{8}, \frac{1}{8}, \frac{1}{8}, \frac{6}{8}, \frac{7}{8}, \frac{1}{8}, \frac{2}{8}, \frac{7}{8}, \frac{7}{8}$ 

a. Complete the line plot.





Possible answer: Water (in cups)

Label

b. How many times did family members use  $\frac{7}{8}$  cups of water?  $\frac{4 \text{ times}}{8}$  How much water is this all together?  $\frac{3^{\frac{4}{8}}}{8}$  cup(s) or  $\frac{28}{8}$  or  $3^{\frac{1}{2}}$ 

c. What was the greatest amount of water someone used in a day?  $\frac{\frac{1}{8}}{8}$  cup(s) What amount of water per day was used most often?  $\frac{\frac{7}{8}}{8}$  cup(s) What is the difference between those amounts?  $\frac{2}{8}$  cup(s)