Unit 7 Assessment

Study Guide

Solve. Show your work.

$$2 3\frac{1}{2} * 2\frac{4}{5} = ?$$

$$4*2\frac{5}{8} = \frac{84}{8} = \frac{4}{8}$$

$$3\frac{1}{2} * 2\frac{4}{5} = \frac{98}{10} \text{ or } 9\frac{8}{10}$$

Explain the strategy you used to solve Problem 2. Explain why you chose that strategy.

Answers vary

Write a number story that can be modeled by Problem 1.

Chris drew a picture that is 25 wide. His

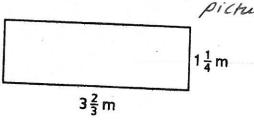
teacher enlarged the picture so it is 4 times as wide, thou many inches wide is the copy of the picture?

Picture?

Reed's class created a mural in the hallway.

The space that they used for the mural is shown at the right. What is the area of the mural?

Area = m^2 $\frac{55}{12} \text{ or } 4\frac{7}{12}$



Unit 7 Assessment (continued)

Solve Problems 6 and 7 using common denominators. Show your work. Use multiplication to check your answer.

6
$$6 \div \frac{1}{4} = ?$$

$$7 \frac{1}{3} \div 5 = ?$$

$$\frac{1}{3} \times \frac{1}{5} = \frac{1}{15}$$

$$6 \div \frac{1}{4} = 24$$

$$\frac{1}{3} \div 5 = \frac{1}{15}$$

Check: _____

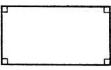
Check: _____

You may use the Quadrilateral Hierarchy Poster to help you solve Problems 8 and 9.

8 List as many names for this figure as you can.

Quadrilateral, trapezoid, parallelogram

Alex is classifying this figure on the quadrilateral hierarchy. He thought: This has four sides, so it is a quadrilateral. It has a pair of parallel sides, so it is a trapezoid. Actually, it has two pairs of parallel sides, so it is also a parallelogram!



a. Can Alex move the figure down to the Rhombus category? Why or why not?

No, because the Figure does not have 4
Sides that are the same length.

b. Can Alex move the figure down to the Rectangle category? Why or why not?

Yes. The Figure has H Right angles

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Unit 7 Assessment (continued)

Justine made 3 loaves of banana bread.

If one serving is $\frac{1}{8}$ loaf, how many servings does Justine have?

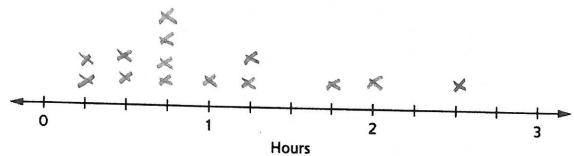
Number model: 3 + 5 5

Answer: _____ servings

These numbers show how long Janine's friends spent on homework on Monday night.

$\frac{3}{4}$ hour	$\frac{1}{2}$ hour	$1\frac{1}{4}$ hours	$2\frac{1}{2}$ hours	1 hour	$1\frac{1}{4}$ hours	1/4 hour
$\frac{1}{4}$ hour	$\frac{1}{2}$ hour	$\frac{3}{4}$ hour	$\frac{3}{4}$ hour	2 hours	$1\frac{3}{4}$ hours	$\frac{3}{4}$ hour

a. Use the data to create a line plot.



- b. What is the difference between the longest amount of time and the shortest amount of time it took students to do homework? _____ hours
- c. How many students spent an hour or less on homework? _____ students
- d. How much time did those students spend on homework combined? 5 3 hours

Unit 7 Assessment (continued)

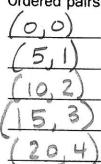
a. Use the given rules to fill in the columns of the table.

in (<i>x</i>) Rule: + 5	out (<i>y</i>) Rule: + 1
0	0
5	
10	2
15	3
20	Н

b. Write a rule to describe the relationship between the in and out numbers.

c. Write the numbers in the table as ordered pairs. Then plot the points on the grid below. Connect the points with a line.

Ordered pairs:



10 8 6 10 12

The graph in Problem 12c models this situation: Alexis saves $\frac{1}{5}$ of the money she earns babysitting to buy a new pair of sneakers. Use the graph to answer the following questions.

If Alexis has earned \$10, how much money has she saved for sneakers? 2 dollars

b. If Alexis has earned \$18, about how much money has she saved for sneakers?

netween 3 and 4 dollars.

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