



## Unit 7 Assessment

Solve. Show your work.

①  $4 * 2\frac{5}{8} = ?$

②  $3\frac{1}{2} * 2\frac{4}{5} = ?$

$4 * 2\frac{5}{8} = \underline{\hspace{2cm}}$

$3\frac{1}{2} * 2\frac{4}{5} = \underline{\hspace{2cm}}$

- ③ Explain the strategy you used to solve Problem 2.  
Explain why you chose that strategy.

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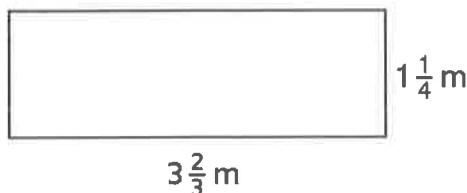
- ④ Write a number story that can be modeled by Problem 1.

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- ⑤ 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 =  $\underline{\hspace{2cm}}$  m<sup>2</sup>



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

$6 \div \frac{1}{4} = \underline{\hspace{2cm}}$

$\frac{1}{3} \div 5 = \underline{\hspace{2cm}}$

Check:  $\underline{\hspace{4cm}}$

Check:  $\underline{\hspace{4cm}}$

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.




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- ⑨ 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?

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

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## Unit 7 Assessment (continued)

- 10 Justine made 3 loaves of banana bread.  
If one serving is  $\frac{1}{8}$  loaf, how many servings does Justine have?

Number model: \_\_\_\_\_

Answer: \_\_\_\_\_ servings

- 11 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	$\frac{1}{4}$ 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? \_\_\_\_\_ hours



## Unit 7 Assessment (continued)

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

in ( $x$ ) Rule: + 5	out ( $y$ ) Rule: + 1
0	0

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

Rule: \_\_\_\_\_

- 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:

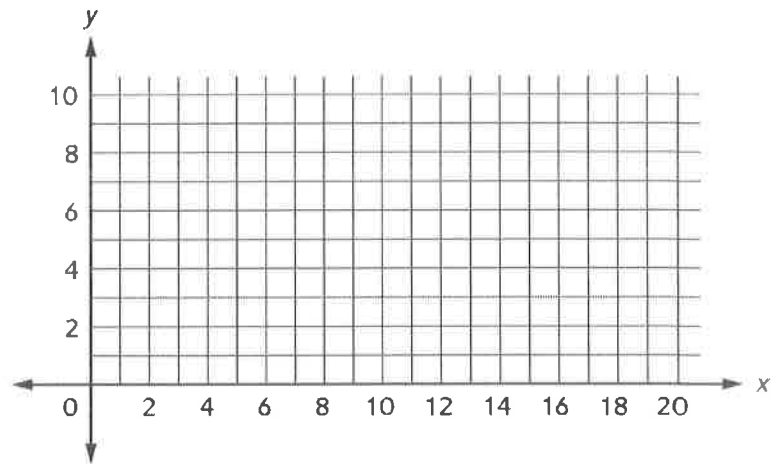
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- 13 The graph in Problem 12c models this situation:  
Alexis saves  $\frac{1}{5}$  of the money she earns babysitting to buy a new pair of sneakers.  
Use the graph to answer the following questions.

- a. If Alexis has earned \$10, how much money has she saved for sneakers?

\_\_\_\_\_

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

\_\_\_\_\_

## Unit 7

Write each statement as an expression.

14. 5 times the sum of 12 and 8.

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15. The product of 4 and 10, minus 2.

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16.  $0.4 * 10^3 =$

Follow the steps to find each number.

17. Write 5 in the tens place.

Write 7 in the hundredths place.

Write 8 in the ones place.

Write 3 in the tenths place.

Write 1 in the thousandths.

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18. Compare.

0.401 \_\_\_\_\_ 0.48

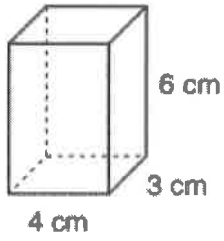
19. Compare.

0.1 \_\_\_\_\_ 0.009

20.  $546 \div 6 =$  \_\_\_\_\_

21.  $2628 \div 12 =$  \_\_\_\_\_

22. Find the volume.



$V =$  \_\_\_\_\_



## Unit 7 Challenge

- ① City planners want to use some land to create a community farm. They will divide the land into square plots that are  $\frac{1}{12}$  km in length on each side. There is enough land to make 9 rows of 18 plots.

- a. Draw a picture that shows the dimensions of the community farm. Be sure to label the total length and width of the farm.

- b. How many plots will there be on the community farm? \_\_\_\_\_ plots

- c. Explain how to use the number of plots to find the area of the farm. Check your work using multiplication.

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## Unit 7 Challenge (continued)

② *Scalene triangles* are triangles with all three sides a different length.

- a. Draw a hierarchy that shows the following categories:  
Triangles, Isosceles triangles, Equilateral triangles, Scalene triangles.

- b. Explain how you knew where to put Scalene triangles in the hierarchy.

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③ Mr. Watkins has 100 copies of the school lunch menu, but he needs 500 copies. The copy machine makes 70 copies per minute.

- a. Use the rules given at the top of each column to complete the table.  
Write a rule to describe the relationship between the two columns.  
Use the data in the table to make ordered pairs and graph them on the grid.  
Connect the points with a line.

Minutes ( $x$ ) Rule: + 1	Copies ( $y$ ) Rule: + 70
0	100

Ordered pairs:

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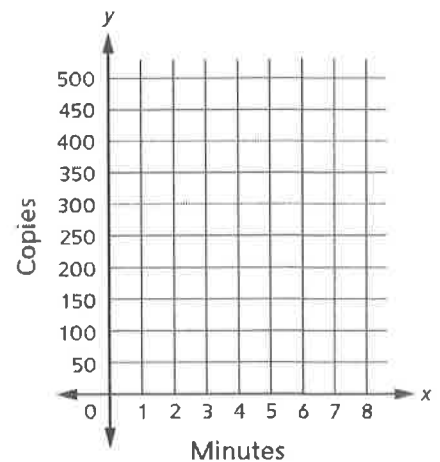
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Rule: \_\_\_\_\_

- b. About how long will it take Mr. Watkins to have 500 copies of the lunch menu?

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