Unit 8 Cumulative Assessment

(1) Use an estimate to place the decimal point in each product or quotient. Write a number sentence to show how you estimated.

a. $12.8 * 65.2 = 8\ 3\ 4\ 5\ 6$ Number sentence: _____

b. $824 * 0.56 = 4\ 6\ 1\ 4\ 4$ Number sentence: _____

c. $243.96 \div 3.8 = 6\ 4\ 2$ Number sentence: _____

d. $454.24 \div 27.2 = 1\ 6\ 7$ Number sentence: _____

For Problems 2–5, make an estimate. Then solve. Show your work.

(2) $8.9 * 73.2 = ?$

Estimate: _____

Answer: _____

(3) $297.6 \div 6 = ?$

Estimate: _____

Answer: _____

(4) $38.7 * 74.3 = ?$

Estimate: _____

Answer: _____

(5) $88.4 \div 2.6 = ?$

Estimate: _____

Answer: _____

Unit 8 Cumulative Assessment (continued)

⑥ Explain how you solved Problem 5.

_____

_____

_____

⑦ **a.** $1.84 * 10^4 =$ _____   **b.** $1.84 \div 10^2 =$ _____

c. $1.84 * 10^6 =$ _____   **d.** $1.84 \div 10^3 =$ _____

⑧ Describe the patterns you used to solve Problem 7. _____

_____

_____

_____

_____

⑨ **a.** Use the rules at the top of each column to complete the table.

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

_____

c. Write the numbers in the table as ordered pairs. Then plot the points on the grid at the right. Draw a line to connect the points.
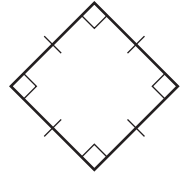
Ordered pairs:

_____ _____ _____

_____ _____

in (x) Rule: −2	out (y) Rule: −1
10	5

Lesson 8-13 ✓
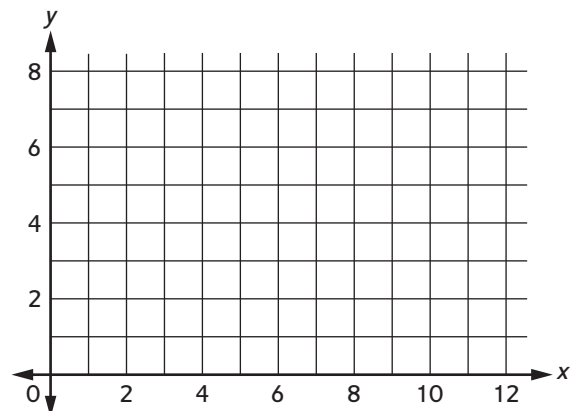
Unit 8 Cumulative Assessment (continued)

10 Look at the figure at the right. Gil said it was a parallelogram.
Sasha said it was a rhombus. Danae said it was a square.
Who is correct? How do you know? You can use the Quadrilateral
Hierarchy Poster to help you.

_____

_____

_____

_____

_____

11 Ryne is growing a plant for science class. He measured its height to the
nearest $\frac{1}{8}$ inch every day for 10 days. Below are the measurements he made.

$2\frac{1}{4}$ in. $2\frac{3}{8}$ in. $2\frac{1}{2}$ in. $2\frac{1}{2}$ in. $2\frac{5}{8}$ in.
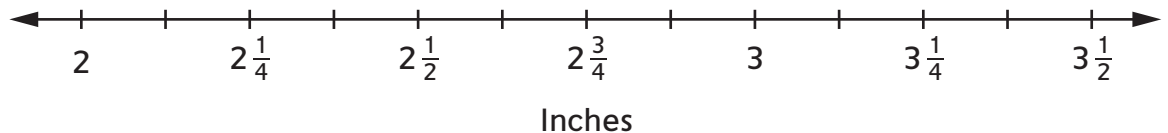
$2\frac{3}{4}$ in.   3 in. $3\frac{1}{8}$ in. $3\frac{1}{8}$ in. $3\frac{1}{8}$ in.

a. Use Ryne's measurements to complete the line plot shown below.

Ryne's Plant Measurements

```
←——+——+——+——+——+——+——+——+——+——+——+——+——+——→
    2      2¼     2½     2¾      3     3¼     3½
                    Inches
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b. How much did Ryne's plant grow over the ten days?

Answer: _____ inch

Unit 8 Cumulative Assessment (continued)

Solve. Show your work.

12 $6\frac{7}{12} * \frac{4}{9} =$ _____

13 $3\frac{1}{8} * 2\frac{3}{4} =$ _____

14 Tiana's family is buying new carpet for their family room. The family room is $24\frac{3}{4}$ feet long and $12\frac{1}{3}$ feet wide. How many square feet of carpet do they need to cover the family room floor?

Number model: _____

Tiana's family needs _____ square feet of carpet.

15 Write a number story that can be modeled by the expression $\frac{1}{4} * \frac{2}{3}$. Then solve the story.

_____

_____

_____

Solution: _____