Name _____ Date _____

Skills Maintenance

Word Statements With Variables

Activity 1

Select the word statement that is the best translation of the number statement.

1. $a + 5 = c$

   If a is Allen's age and c is Colleen's age:

   (a) Allen is 5 years older than Colleen.

   (b) Colleen is 5 years older than Allen.

   (c) Allen is 5 times as old as Colleen.

2. $w \cdot 10 = x$

   If w is the number of dogs and x is the number of fish:

   (a) There are 10 times as many dogs as fish at the pet store.

   (b) There are 10 fewer fish than dogs at the pet store.

   (c) There are 10 times as many fish as dogs at the pet store.

3. $x - 4 = y$

   If x is the number of cookies and y is the number of brownies:

   (a) There are 4 fewer cookies than brownies.

   (b) There are 4 more cookies than brownies.

   (c) There are 4 fewer brownies than cookies.

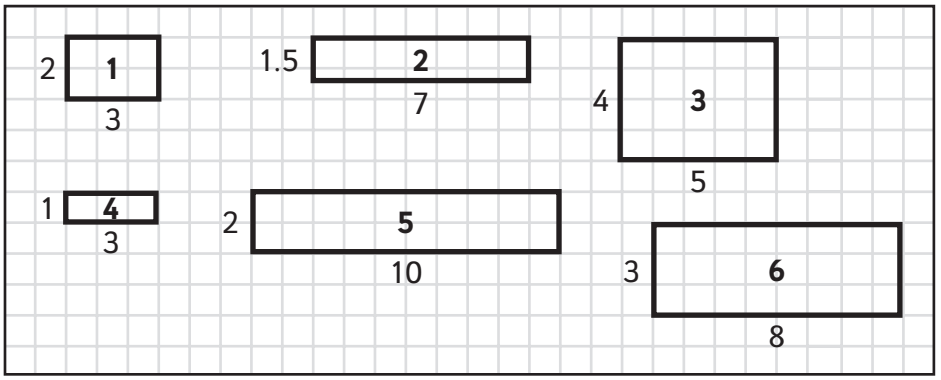
Name _____ Date _____

Unit Review

Variables

Activity 1

Find the areas of the rectangles. Remember the formula: Area = *l* • *w*. Label your answer in square units.



1. Area _____
2. Area _____
3. Area _____
4. Area _____
5. Area _____
6. Area _____

Activity 2

Find the value of the missing variable in the proportions.

1. $\frac{1}{4} = \frac{y}{20}$ $y =$ _____
2. $\frac{3}{m} = \frac{6}{4}$ $m =$ _____
3. $\frac{t}{18} = \frac{1}{2}$ $t =$ _____
4. $\frac{7}{10} = \frac{x}{50}$ $x =$ _____
5. $\frac{11}{h} = \frac{22}{4}$ $h =$ _____
6. $\frac{r}{6} = \frac{36}{36}$ $r =$ _____

Name _____ Date _____

Activity 3

Translate the word statements to number statements and the number statements to word statements. Solve if necessary.

1. $m = j + 6$

   $m =$ _____

   $j =$ _____

   Statement _____

   _____

2. A store is going out of business and everything is 80% off. If a TV was originally $635, how much is it after the discount?

   _____

3. You go out to a restaurant and decide to tip your waitress 20% on a $53 bill. How much is the tip?

   _____

4. A teacher notices that a student is absent twice as much as you are. Write an equation using variables.

   _____

Name _____ Date _____

Unit Review

Ratios and Proportions

Activity 1

Write a ratio for each word statement. Then say if the ratio is a part-to-part or part-to-whole relationship.

1. 10 computers to 3 printers

   Ratio _____ Relationship _____

2. 1 pepper out of a barrel of 12

   Ratio _____ Relationship _____

3. 3 missed calls out of 14

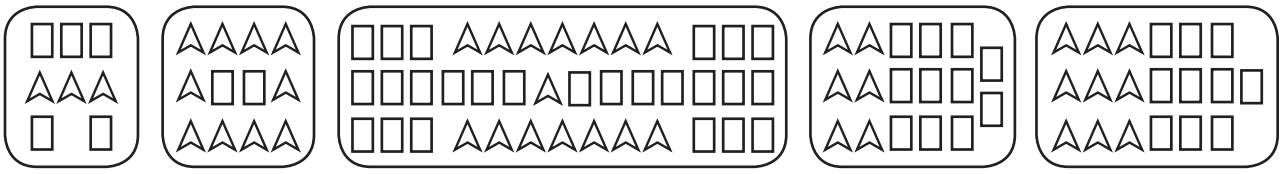
   Ratio _____ Relationship _____

4. 4 pizzas to 1 cake

   Ratio _____ Relationship _____

Activity 2

Circle the cards that are proportional to each other.

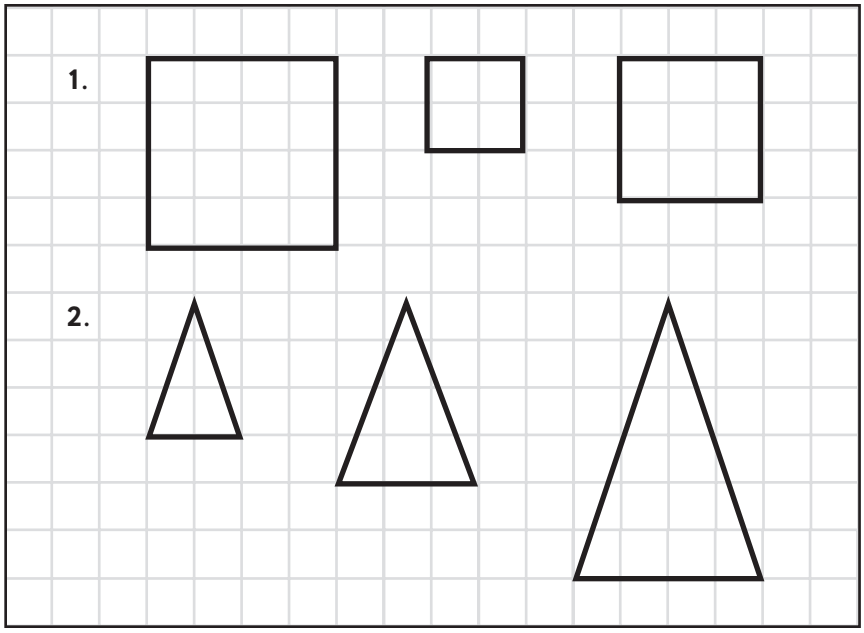


Card 1 Card 2 Card 3 Card 4 Card 5

Name _____ Date _____

Activity 3

Find the ratios of the shapes in the grid to decide if they are proportional or not. Circle the shapes that are proportional.



1. _____

2. _____