Name _____ Date _____

Skills Maintenance
Basic Facts With Variables and Word Problems

Activity 1

Solve the problems involving variables.

1. $x + 8 = 17$ $x =$ _____

2. $y - 7 = 9$ $y =$ _____

3. $a \cdot 9 = 72$ $a =$ _____

4. $56 \div 8 = b$ $b =$ _____

5. $6 + c = 13$ $c =$ _____

6. $14 - d = 7$ $d =$ _____

Activity 2

Select the number statement that translates the word statement.

1. Amy is 5 years older than Bob. If m represents Amy's age and x represents Bob's age:

   (a) $m = 5 \cdot x$

   (b) $x - 5 = m$

   (c) $m - 5 = x$

2. There are 5 times as many students as teachers at the junior high school. If z represents the number of students and b represents the number of teachers:

   (a) $5 + z = b$

   (b) $5 \cdot b = z$

   (c) $z \cdot 5 = b$

3. There are 3 more dogs than cats at the kennel. If d represents the number of dogs and c represents the number of cats:

   (a) $3 + c = d$

   (b) $3 + d = c$

   (c) $d \cdot 3 = c$

Name _____ Date _____

Apply Skills
Translating Number Statements Into Word Statements

Activity 1

Then write a word sentence that represents each number sentence.

1. $a + b = 12$

   If a represents _____ and b represents

   _____ :

   Word Statement _____

   _____

   _____

   _____

   _____

2. $4 \cdot c = d$

   If c represents _____ and d represents

   _____ :

   Word Statement _____

   _____

   _____

   _____

3. $f - 5 = m$

   If f represents _____ and m represents
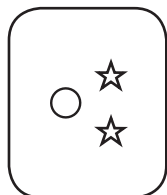
   _____ :

   Word Statement _____

   _____

   _____

   _____

   _____

Name _____ Date _____

Problem-Solving Activity
Identifying Proportions

Decide which cards are proportional to each other. The cards may be used more than once.

A   B   C   D

E   F   G   H

Which cards are proportional?

_____

_____

_____

_____

_____

What is the card that is not proportional to any of the others?

_____