

Name _____ Date _____



Skills Maintenance

Translations and Proportions

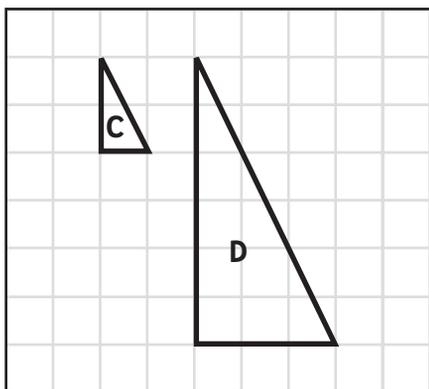
Activity 1

Select the best translation for each statement below.

- Jessica is 4 inches taller than Bonnie. If j is Jessica's height and b is Bonnie's height:
 - $j = b + 4$
 - $b = j + 4$
 - $b - 4 = j$
- $W - 4 = L$
If W is Wanda's age and L is Lenny's age:
 - Wanda is 4 years younger than Lenny.
 - Lenny is 4 years younger than Wanda.
 - Lenny and Wanda are the same age.

Activity 2

Write a proportion about the dimensions of the similar shapes. Tell what the scaling factor is.



Proportion _____

Scaling factor _____

Name _____ Date _____



Problem-Solving Activity

Figuring Out the Formula

Find the formula for each set of input and output data given.

1.

Input	Output
45	9
30	6
60	12
50	10
20	4

What is the formula for this data? Use N for input and M for output. Formula _____

2.

Input	Output
6	48
12	72
4	32
5	40
1	8

What is the formula for this data? Use x for input and y for output. Formula _____

3.

Input	Output
20	25
35	40
75	80
10	15

What is the formula for this data? Use w for input and z for output. Formula _____

Name _____ Date _____

Problem-Solving Activity

Fill in the missing input, output, or formula for each of the problems.

1.

Input	Formula	Output
$n = 6$	$n \cdot 8 = w$	
$n = 8$		
$n = 10$		
$n = 1.5$		

2.

Input	Formula	Output
$n = 6$		$w = 3$
$n = 8$		$w = 4$
$n = 10$		$w = 5$
$n = 12$		$w = 6$

3.

Input	Formula	Output
	$n + 10 = w$	$w = 20$
		$w = 13$
		$w = 27$
		$w = 109$