Name	Date

**

Skills Maintenance

Writing Proportions

Activity 1

Find the value of the variable in the proportions.

 1. $\frac{4}{6} = \frac{x}{3}$ x =_____
 2. $\frac{2}{3} = \frac{10}{y}$ y =_____

 3. $\frac{1}{a} = \frac{5}{30}$ a =_____
 4. $\frac{w}{3} = \frac{6}{9}$ w =_____

 5. $\frac{3}{4} = \frac{6}{z}$ z =_____
 6. $\frac{3}{m} = \frac{15}{35}$ m =_____

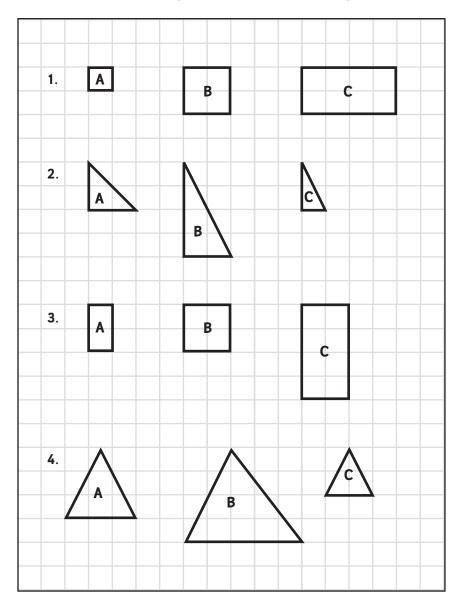
Ν	a	m	ı	2	

_____ Date _____



Problem-Solving Activity Proportions and Geometry

Circle the two similar shapes in each set of three shapes.



Propor	em-Solv tions and dimension what the s	Geomet s of the s	try shapes. V	Write p	roporti	ons th	at prove	each po	air of shap	oes is simile
Problem		, cutting i		•						
							7			
	Α						_			
	A			в						
					_					
	ensions of					-				
The dime	ensions of	B are –	→ base		hei	ght _				
Write a p	proportior	ı about t	he dime	ensions	of the	two sl	napes tł	nat prov	ves they a	re similar.
	А		В							
<u>Base</u> Height		=		Wh	nt is th	e scal	ina fact	or?		
Problem						e seut	ing race	or		
	-									
			D							
	$-\lambda$									
	c \									
	$ \rightarrow $									
	ensions of					•				
	ensions of					-				
Write a p		ı about t		ensions	of the	two sł	napes th	nat prov	es they a	re similar.
	С		D							
Base	•		D							

Name _____ Date _____

Name	Data
	_ Date



Problem-Solving Activity

Using Proportions in Geometry

Now it is your turn to make similar shapes. Use the grid paper and draw the first shape, A. Draw a second shape, B, which is similar to A. Write the proportion. What is the scaling factor? Draw another shape, C, that is proportional to A. Write the proportion. What is the scaling factor you used for this shape?

1. Write the proportion showing that Shapes A and B are similar.

Shape A Shape B

Base				
Height	 =	 What scaling factor	did you use?	

2. Write the proportion showing that Shapes A and C are similar.

Shape A Shape C

=

<u>Base</u> Height

____ What scaling factor did you use? _____