Name	Date



## **Skills Maintenance**

**Balanced Scales** 

## Activity 1

Use cancellation and the balance scales to find the value of a certain shape in each problem.



**1**. What is the value of  $\triangle$  in the scale?



**2**. What is the value of  $\bigcirc$  in the scale?



**3**. What is the value of  $\Box$  in the scale?



Lesson 4	Apply Skills
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%÷ <b>Apply Skil</b> ⋜× Equations Wi	ls ith Variables	
Activity 1		
Solve the equat answer by subs equation. Reme	ions using special symbols and properties. Check your tituting the value of the variable back into the original mber that gray symbols represent negatives.	
	x + 3 = 5 Represent the problem using special symbols:	

	Add the inverse of 3 to each side to get the variable alone:
	$\nabla + \Box \Box \Box \Box + \Box \Box \Box = \Box \Box \Box \Box \Box \Box + \Box \Box \Box$
Model	Cancel inverses since they equal 0:
	Write the special symbols that are left:
	Write use variables and numbers: $X = 2$

**1**. y - 5 = 4 Show your work here:

Check your answer here: \_\_\_\_\_

**2**. z + 3 = -2 Show your work here:

Check your answer here: \_\_\_\_\_

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## Problem-Solving Activity

Determining Measurements of Angles

Use algebraic equations to find the missing angle measurements in each problem. Be sure to show all of your work.

**1**. What is the measure of  $\angle b$ ? \_\_\_\_\_

b x° 10°

**2**. What is the measure of  $\angle r$ ? \_\_\_\_\_

x° r 20° 40°

**3**. What is the measure of  $\angle c$ ? \_\_\_\_\_



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**4**. What is the measure of  $\angle v$ ? \_\_\_\_\_



**5**. What is the measure of  $\angle j$ ? \_\_\_\_\_

