Lesson 8	Skills Maintenance
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Name			Date
100	Skills Maintenance Equations with Variables on Both Sides		
ļ	Activity 1		
So	lve each equation.		
1.	2x + 5 = 3x + 5	2.	-6 + x = 2x - 5
	Show your work here:		Show your work here:
	x =		x =
	Check your work here:		Check your work here:
	-		-

#### Activity 2

Rewrite each pattern using an equation with variables that represent the pattern.

Model 6 + 2 = 2 + 68 + 5 = 5 + 8 -1 + -2 = -2 + -1 Write the equation. x + y = y + x

**1**.  $3(4+2) = 3 \cdot 4 + 3 \cdot 2$ 

 $2(5 + 1) = 2 \cdot 5 + 2 \cdot 1$  $6(8 + 2) = 6 \cdot 8 + 6 \cdot 2$ Write the equation.

**2**.  $4 \cdot 1 + 4 \cdot 9 = 4(1 + 9)$ 

 $2 \cdot 3 + 2 \cdot 8 = 2(3 + 8)$ 

 $6 \cdot 5 + 6 \cdot 6 = 6 (5 + 6)$ 

Write the equation. \_\_\_\_\_

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# ☆ → Apply Skills ★ The Distributive Property in Equations

#### Activity 1

Solve the equations using the distributive property. Be sure to show your work and check your answers.

1. 3(x+5) = 30

Show your work here:

**2**. 2(x+10) = 40

Show your work here:

x = \_\_\_\_\_

x = \_\_\_\_\_

Check your work here:

Check your work here:

**3**. -2(-x+-1) = -12

Show your work here:

x = \_\_\_\_\_

Check your work here:

Name	Date

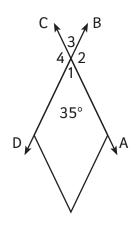


### **Problem-Solving Activity**

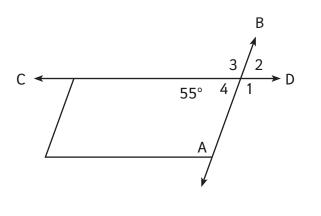
Angles and Intersecting Lines

Use algebra to find the total measurement of the exterior angles for each figure. Look for a pattern in the measures of these angles. Can you make a general statement about the measure of angles in straight lines that intersect?

1. What are the measures of  $\angle 2$ ,  $\angle 3$ , and  $\angle 4$ ?



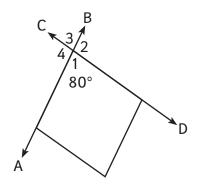
**2**. What are the measures of  $\angle 1$ ,  $\angle 2$ , and  $\angle 3$ ?



## Lesson 8 Problem-Solving Activity

Name	Date

**3**. What are the measures of  $\angle 2$ ,  $\angle 3$ , and  $\angle 4$ ?



**4**. What are the measures of  $\angle 1$ ,  $\angle 2$ , and  $\angle 3$ ?

