Name	Date



Skills Maintenance

Balanced Equations

Activity 1

Show that each equation is balanced by simplifying the equations on both sides of the equal sign.

1.
$$45 + 45 = 10 \cdot 3^2$$

Show your work here:

$$\mathbf{2}. \qquad \underbrace{72 \div 8 + 6}_{\mathbf{2}} = \underbrace{(2 + 3) \cdot 3}_{\mathbf{2}}$$

Show your work here:

3.
$$102 - 77 = 3^2 + 4^2$$

Show your work here:

Lesson 2 Apply Skill

Ν	a	n	le	2	
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_ Date _____

Activity 1

Write an expression on the blank side of the scale that is equal to the other equation. Your expression should include one operation or more and more than one term. Then show that the two sides are balanced.





- (a) Simplify the left-hand side. _____
- (b) Think of a different expression for representing the same thing and fill it in above.
- (c) Prove the equation is balanced by simplifying both sides. Show your work here.

	Date	
(a) (b) (c)	 = 5² + 6² - 11 Simplify the right-hand side. Think of a different expression for representing the same thing and fill it in above. Prove the equation is balanced by simplifying both sides. Show your work here. 	
(a) (b) (c)	5 (8 + 2) = Simplify the left-hand side.	
(a) (b) (c)	= 900 ÷ (3 · 10) + 6 Simplify the right-hand side. Think of a different expression for representing the same thing and fill it in above. Prove the equation is balanced by simplifying both sides. Show your work here.	
	(a) (b) (c) (a) (c) (a) (b) (c)	$= 5^{2} + 6^{2} - 11$ (a) Simplify the right-hand side. (b) Think of a different expression for representing the same thing and fill it in above. (c) Prove the equation is balanced by simplifying both sides. Show your work here. (c) Simplify the left-hand side. (c) Think of a different expression for representing the same thing and fill it in above. (c) Prove the equation is balanced by simplifying both sides. Show your work here. (c) Simplify the right-hand side. (c) Prove the equation is balanced by simplifying both sides. Show your work here. (c) Prove the equation is balanced by simplifying both sides. Show your work here. (c) Prove the equation is balanced by simplifying both sides. Show your work here. (c) Prove the equation is balanced by simplifying both sides. Show your work here.

Name		Date			
1	P	roblem-Solving Activity isecting Angles			
	Use rule	e what you learned about creating a perpe er or straight edge and a compass to const	ndicular l truct each	ine. Then use just a angle.	
	1.	An angle that measures 45°	2.	An angle that measures 135°	
		• •		• •	
	3	An anale that measures 225°	٨	An anale that measures 315°	
	0.	The angle that measures 225	ч.	An angle that measures 515	

mBook Reinforce Understanding Use the **mBook** *Study Guide* to review lesson concepts.

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