

### Warm-Up

W 2K

## Combining Like Terms to Solve Equations



#### Words to Know

Fill in this table as you work through the lesson. You may also use the glossary to help you.

addition property of equality	the property stating that adding the quantity to	
	both sides of an equation does not change the solution set	
division property of equality	the property stating that dividing both sides of an equation by the	
	same number does not change the equation	
inverse operations	operations that "each other, such as addition and subtraction or multiplication and division	
multiplication property of equality	the property stating that multiplying sides of an	
	equation by the same value does not change the equation	
subtraction property of equality	the property stating that subtracting the same quantity from	
	both sides of an equation does change the equation	



#### Instruction

### Combining Like Terms to Solve Equations



x =



#### Instruction





#### Instruction

Slide

5

### Combining Like Terms to Solve Equations

#### Writing and Solving an Equation

#### **REAL-WORLD CONNECTION**

Mrs. Garner needs to arrange 28 desks into rows on each side of her classroom with an aisle in the middle. There is room for 4 rows on the left side, but only 3 rows on the right side. How many desks should be in each row on the right?





#### Instruction





#### Instruction

PROCEDURE	
1. Undo or subtraction to isolate the variable term.	Solve $3.25x - 4 = 15.5$ for $3.25x - 4 = 15.5$ + 4 = 15.5 - 4 = 15.5 - 4 = 15.5 - 4 = 15.5 - 4 = 15.5
2. Undo multiplication or to isolate the variable.	$\frac{3.25x}{3.25} = \frac{19}{x}$
3. Check your answer. Che	ck: $3.25(6) - 4 = 15.5$ 19.5 - 4 = 15.5 $= 15.5 \checkmark$
So $x = 6$ is the correct answer.	



#### Instruction





### Instruction





### Summary

## Combining Like Terms to Solve Equations



Lesson Question	How can you solve linear equations by combining like terms?
Answer	

Use this space to write any questions or thoughts about this lesson.