Name _____

Solve the equation $4(3x + 5) = 6(x + 8) - x$.

$$4(3x + 5) = 6(x + 8) - x$$

$12x + 20 = 6x + 48 - x$ Use the Distributive Property.

$12x + 20 = 5x + 48$ Combine like terms.

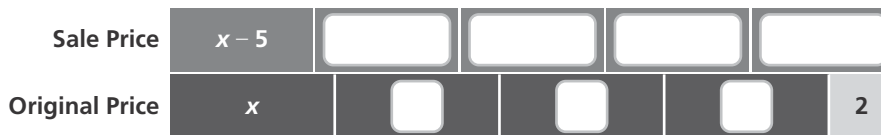$7x + 20 = 48$ Subtract $5x$ from both sides.

$7x = 28$ Subtract 20 from both sides.

$x = 4$ Divide both sides by 7.

Rajan bought 5 copies of a book to give as gifts. The book was on sale for $5 off the original price. The total that Rajan spent on 5 books was $2 more than he would have spent on 4 copies of the book at the original price. What was the original price?

1. Complete the bar diagram below.

Sale Price	$x - 5$				
Original Price	x				2

2. Complete the equation that represents the bar diagram.

$5(\boxed{} - \boxed{}) = \boxed{} + \boxed{}$

3. Fill in the steps to solve the equation.

$5x - \boxed{} = 4x + 2$ Use the $\boxed{}$ Property.

$5x - \boxed{} - 25 = 4x - 4x + 2$ Subtract $\boxed{}$ from both sides.

$\boxed{} - 25 = 2$ Combine like terms.

$x - 25 + \boxed{} = 2 + \boxed{}$ Add 25 to both sides.

$x = \boxed{}$ Simplify.

4. What was the original price of the book?

On the Back!

5. Joshua scored the same number of points in each of his last 3 basketball games. He scored 8 fewer points in each of those games than he scored in his best game. The total number of points that Joshua scored in the last 3 games is equal to twice the number of points he scored in his best game. How many points did Joshua score in his best game?