

## 7.2 Addition Equation (6.EE.5 and 6.EE.7)

### Vocabulary

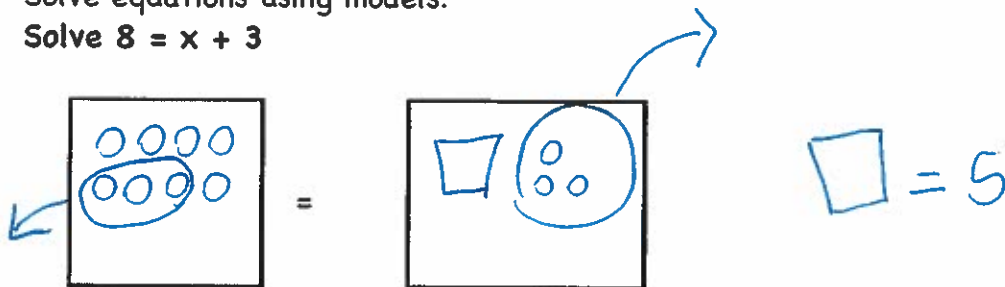
**Inverse Operation** - operations that undo each other.

**Subtraction Property of Equality** - If you subtract the same number from each side of an equation, the two sides remain equal.

### Guided Practice:

Solve equations using models.

Solve  $8 = x + 3$



$$\begin{array}{r} 19.50 \\ -0.512 \\ \hline 14.18 \end{array}$$

Solve each equation. Check your solution.

1.)  $y + 7 = 10$   
 $\quad -7 \quad -7$

$y = 3$

2.)  $17 = 6 + e$   
 $\quad -6 \quad -6$

$11 = e$

3.)  $19.3 = k + 5.12$   
 $\quad -5.12 \quad -5.12$

$14.18 = k$

4.) A board that measures 19.5 meters in length is cut into two pieces. One piece measures 7.2 meters. Write and solve an equation to find the length of the other piece.

$7.2 + p = 19.5$

$\begin{array}{r} 7.2 + p = 19.5 \\ -7.2 \quad -7.2 \end{array}$

$p = 12.3 \text{ m}$

5.) It takes 43 facial muscles to frown. This is 26 more muscles than it takes to smile.

Write and solve an equation to find the number of muscles it takes to smile.

$s + 26 = 43$   
 $\quad -26 \quad -26$

$s = 17 \text{ muscles}$

### Partner Talk

Zacarias and Paz together have \$756.80. If Zacarias has \$489.50, how much does Paz have? Write and solve an addition equation to find how much money belongs to Paz.

$489.50 + p = 756.80$   
 $\quad -489.50 \quad -489.50$

$p = 267.30$   
 dollars

**Building on the Essential Question** - How can the Subtraction Property of Equality be used to solve addition equations?

If you subtract the same amount from both sides of an equation, the two sides remain equal.

**Rate Yourself** - How confident are you about addition equations? Shade in the correct section.

YES ? NO

← Rate yourself!