

1 step equations (addition/subtraction)

goal: is to isolate the variable

you must use inverse (opposite) operation

* addition the inverse subtraction

* subtraction the inverse addition

Properties

Addition Property of Equality:

* what you add to the left you must add to the right

Subtraction Property of Equality:

* what you subtract to the left you must subtract to the right

$$\begin{array}{r} \text{ex.) } x + 8 = 15 \\ - 8 = -8 \\ \hline x = 7 \end{array}$$

$$\begin{array}{r} 7 + 8 = 15 \\ 15 = 15 \end{array}$$

$$\begin{array}{r} \text{ex.) } x + 19 = -22 \\ - 19 = -19 \\ \hline x = -41 \end{array}$$

$$\begin{array}{r} -41 + 19 = -22 \\ -22 = -22 \end{array}$$

$$\begin{array}{r|l} \text{ex.) } x + 10 = 16 & \\ - 10 & -10 \\ \hline x = 6 & \end{array}$$

$$\begin{array}{l} 6 + 10 = 16 \\ 16 = 16 \end{array}$$

$$\begin{array}{r|l} \text{ex.) } t - 5 = 2 & \\ + 5 & +5 \\ \hline t = 7 & \end{array}$$

$$\begin{array}{l} 7 - 5 = 2 \\ 2 = 2 \end{array}$$

$$\begin{array}{r|l} \text{ex.) } 52 + n = 24 & \\ - 52 & -52 \\ \hline n = -28 & \end{array}$$

$$\begin{array}{l} 52 + (-28) = 24 \\ 24 = 24 \end{array}$$

$$\begin{array}{r|l} \text{ex.) } x - 3 = 9 & \\ - 3 & -3 \\ \hline x = 6 & \end{array}$$

$$\begin{array}{l} 6 - 3 = 9 \\ 9 = 9 \end{array}$$

HW: I can evaluate
addition and subtraction
1 step equations.

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Nov. 9th project due