4-5 Solving Two Step Equations

Goals: 1. Do the opposite operation to get the variable by itself.

2. Keep the equation balanced.



$$2m + 8 = 32
-8 - 8$$

$$2 = 24$$

$$3x - 5 = 13
+8 + 5$$

$$x = 16$$

$$x = 6$$

Ex. 2 Solve:

$$\frac{w}{4} - 6 = 3$$

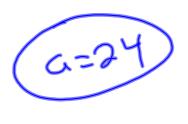
$$+ 6 + 6$$

$$w = 9 (4)$$

$$\frac{a}{3} + 2 = 10$$

$$-2 - 2$$

$$3 = 8 \cdot 3$$



Ex. 3 Solve:

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Ex. 4 Solve:

$$\begin{array}{c|c}
12 - 2x = 20 \\
-12 & -12
\end{array}$$

$$\begin{array}{c|c}
-2x = 6 \\
\hline
-2x = 4
\end{array}$$

$$\begin{array}{c|c}
3 - 7x = 24 \\
-3 & -3
\end{array}$$

Ex. 5 Solve:

$$2x + 5 + 5x + 11 - 1x - 8 = 50$$

$$6 \times + 8 = 50$$

$$-8 = 42$$

$$3x + 8 + 9 + 5x - 7 + x = 91$$

$$9 \times + 10 = 91$$

$$\times = 9$$

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