

# Algebra I

3-3  
(Day 1)  
Solving Equations

Solve. - Get the variable on a side by itself.

$$\begin{aligned} 1) \quad 2x - 1 &= 11 \\ 2x - 1 + 1 &= 11 + 1 \\ \underline{2x} &= \underline{12} \\ x &= 6 \\ \{6\} \end{aligned}$$

$$\begin{aligned} 7) \quad \frac{1}{2}x + 7 &= 6 \\ \frac{1}{2}x + 7 - 7 &= 6 - 7 \\ 2\left(\frac{1}{2}x\right) &= (-1) \cdot 2 \\ x &= -2 \\ \{-2\} \end{aligned}$$

$$\begin{aligned} 11) \quad 3\left(\frac{x+5}{3}\right) &= 7 \\ x+5 &= 21 \\ x+5-5 &= 21-5 \\ x &= 16 \\ \{16\} \end{aligned}$$

$$\begin{aligned} 19) \quad 5y - 7 + 4y &= 13 \\ 5y - 7 &= 13 \\ 5y - 7 + 7 &= 13 + 7 \\ \underline{5y} &= \underline{20} \\ y &= 4 \\ \{4\} \end{aligned}$$

Try on your own!

5.28

$$\begin{aligned} 25) \quad 35 &= 5(n+2) \\ \underline{5} \quad \underline{5} & \\ 7 &= n+2 \\ 7-2 &= n+2-2 \\ 5 &= n \\ \{5\} \end{aligned}$$

Assignment:

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1-30 all