

ANSWER KEY Extra Practice: 1.7 Order of Operations

Order of Operations

Evaluate each expression.

$$\begin{aligned} 1) & (3)(4) - 3 - 6 \\ & 12 - 3 - 6 \quad \text{left} \rightarrow \text{right} \\ & 9 - 6 = 3 \end{aligned}$$

$$\begin{aligned} 2) & 6 + 1 - (5 + 1) \\ & 6 + 1 - (6) \\ & 7 - 6 = 1 \end{aligned}$$

$$\begin{aligned} 3) & \frac{3 + 9}{6} + 5 \\ & \frac{12}{6} + 5 \\ & 2 + 5 = 7 \end{aligned}$$

$$\begin{aligned} 4) & 4 - (5 - (2)(2)) + 6 \\ & 4 - (5 - 4) + 6 \\ & 4 - 1 + 6 \\ & 3 + 6 = 9 \end{aligned}$$

$$\begin{aligned} 5) & \frac{14 + 11}{4 + 4 - 3} \\ & \frac{25}{8 - 3} = \frac{25}{5} = 5 \end{aligned}$$

$$\begin{aligned} 6) & (6 + 6 - 3) \left(\frac{12}{6} \right) \\ & (6 + 6 - 3)(2) \\ & (12 - 3)2 \\ & 9(2) = 18 \end{aligned}$$

$$\begin{aligned} 7) & \frac{10}{2} + 6 - 1 - 2^2 \\ & \frac{10}{2} + 6 - 1 - 4 \\ & 5 + 6 - 1 - 4 \quad \text{left} \rightarrow \text{right} \\ & 11 - 1 - 4 \\ & = 6 \end{aligned}$$

$$\begin{aligned} 8) & 4 + 5 - 3 - ((2)(3) - 2) \\ & 4 + 5 - 3 - (6 - 2) \\ & 4 + 5 - 3 - 4 \quad \text{left} \rightarrow \text{right} \\ & 9 - 3 - 4 \\ & 6 - 4 = 2 \end{aligned}$$

$$\begin{aligned} 9) & 5 - 1 + 1 - \frac{8}{1 + 1} \\ & 5 - 1 + 1 - \frac{8}{2} \\ & 5 - 1 + 1 - 4 \quad \text{left} \rightarrow \text{right} \\ & 4 + 1 - 4 \\ & 5 - 4 = 1 \end{aligned}$$

$$\begin{aligned} 10) & \frac{(5)(2)}{4 + 1 - (4 - 1)} \\ & \frac{10}{4 + 1 - 3} \\ & \frac{10}{5 - 3} \\ & \frac{10}{2} = 5 \end{aligned}$$