

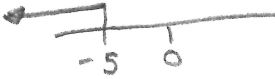
Integer/Fraction Quiz

Name: _____

12

1. Evaluate the following integer expressions.

$$\begin{aligned} \text{a) } 3 - (-5) \\ = 3 + 5 \\ = 8 \end{aligned}$$

$$\begin{aligned} \text{b) } -5 + (-7) \\ = -5 - 7 \end{aligned}$$

$$= -12$$

$$\begin{aligned} \text{c) } -2 - (-5) \\ = -2 + 5 \\ = 3 \end{aligned}$$


$$\begin{aligned} \text{d) } -3 \times (-4) \\ = 12 \end{aligned}$$

$$\begin{aligned} \text{e) } -36 \div 9 \\ = -4 \end{aligned}$$

$$\begin{aligned} \text{f) } 6 - (-2)^2 \\ = 6 - 4 \\ = 2 \end{aligned}$$

2. Evaluate the following fraction expressions.

$$\begin{aligned} \text{a) } \frac{3}{5} - \frac{1}{7} \\ = \frac{21}{35} - \frac{5}{35} \\ = \frac{16}{35} \end{aligned}$$


$$\begin{aligned} &= \frac{21-5}{35} \\ &= \frac{16}{35} \end{aligned}$$

$$\begin{aligned} \text{b) } \frac{2}{3} \times \frac{5}{7} \\ = \frac{10}{21} \end{aligned}$$

$$\begin{aligned} \text{c) } \frac{5}{3} \div \frac{2}{7} \\ = \frac{5}{3} \times \frac{7}{2} \\ = \frac{35}{6} \end{aligned}$$

$$\frac{1}{2} + \frac{2}{3} = \frac{3}{5}$$

3. Solve for x.

$$\begin{aligned} \text{a) } 2x + 3 &= -5 \\ 2x &= -5 - 3 \\ \frac{2x}{2} &= \frac{-8}{2} \\ x &= -4 \end{aligned}$$

$$\begin{aligned} \text{b) } 5x + 3 &= 8x - 12 \\ 5x - 8x &= -12 - 3 \\ -3x &= -15 \\ \frac{-3x}{-3} &= \frac{-15}{-3} \\ x &= 5 \end{aligned}$$

$$\begin{aligned} \text{c) } \frac{4}{3} \times \frac{8}{x} \\ 4x &= 24 \\ \frac{4x}{4} &= \frac{24}{4} \\ x &= 6 \end{aligned}$$