

Solving Ratios and Proportions

Solve for x .

$$\textcircled{1} \quad \frac{4}{x-8} = \frac{8}{2}$$

$$\textcircled{2} \quad \frac{x-5}{x+8} = \frac{2}{7}$$

$$\textcircled{3} \quad \frac{x+10}{x-7} = \frac{8}{9}$$

$$\textcircled{4} \quad \frac{6}{x-1} = \frac{9}{7}$$

$$\textcircled{5} \quad \frac{x}{12} = \frac{10}{2}$$

$$\textcircled{6} \quad \frac{40}{25} = \frac{x}{20}$$

$$\textcircled{7} \quad \frac{40}{24} = \frac{20}{x}$$

$$\textcircled{8} \quad \frac{11}{10} = \frac{x}{11}$$

$$\textcircled{9} \quad \frac{x-3}{x} = \frac{9}{10}$$

$$\textcircled{10} \quad \frac{x}{x-3} = \frac{2}{3}$$

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Answers

$$\textcircled{1} \quad \frac{4}{x-8} = \frac{8}{2}$$

$$\underline{x = 9}$$

$$\textcircled{2} \quad \frac{x-5}{x+8} = \frac{2}{7}$$

$$\underline{x = 10.2}$$

$$\textcircled{3} \quad \frac{x+10}{x-7} = \frac{8}{9}$$

$$\underline{x = -146}$$

$$\textcircled{4} \quad \frac{6}{x-1} = \frac{9}{7}$$

$$\underline{x = 5.67}$$

$$\textcircled{5} \quad \frac{x}{12} = \frac{10}{2}$$

$$\underline{x = 60}$$

$$\textcircled{6} \quad \frac{40}{25} = \frac{x}{20}$$

$$\underline{x = 32}$$

$$\textcircled{7} \quad \frac{40}{24} = \frac{20}{x}$$

$$\underline{x = 12}$$

$$\textcircled{8} \quad \frac{11}{10} = \frac{x}{11}$$

$$\underline{x = 12.1}$$

$$\textcircled{9} \quad \frac{x-3}{x} = \frac{9}{10}$$

$$\underline{x = 30}$$

$$\textcircled{10} \quad \frac{x}{x-3} = \frac{2}{3}$$

$$\underline{x = -6}$$