

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Inverse operations: Questions

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$$\begin{aligned}
 (1) \quad & 2(x+3) = 18 \\
 & \frac{2(x+3)}{\quad} = \frac{18}{\quad} \\
 & \quad \quad \quad \dots \quad \quad \dots \\
 & x+3 = \dots \\
 & x+3 - \dots = \dots - \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (6) \quad & 6x - 6 = 24 \\
 & 6x - 6 + \dots = 24 + \dots \\
 & 6x = \dots \\
 & \frac{6x}{\quad} = \frac{\dots}{\quad} \\
 & \quad \quad \quad \dots \quad \quad \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & \frac{x+4}{4} = 10 \\
 & \frac{x+4}{4} \times \dots = 10 \times \dots \\
 & x+4 = \dots \\
 & x+4 - \dots = \dots - \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (7) \quad & \frac{x-1}{7} = 4 \\
 & \frac{x-1}{7} \times \dots = 4 \times \dots \\
 & x-1 = \dots \\
 & x-1 + \dots = \dots + \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad & \frac{x+7}{8} = 6 \\
 & \frac{x+7}{8} \times \dots = 6 \times \dots \\
 & x+7 = \dots \\
 & x+7 - \dots = \dots - \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (8) \quad & \frac{x}{4} + 8 = 16 \\
 & \frac{x}{4} + 8 - \dots = 16 - \dots \\
 & \frac{x}{4} = \dots \\
 & \frac{x}{4} \times \dots = \dots \times \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (4) \quad & \frac{x-3}{6} = 4 \\
 & \frac{x-3}{6} \times \dots = 4 \times \dots \\
 & x-3 = \dots \\
 & x-3 + \dots = \dots + \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (9) \quad & 10x - 9 = 31 \\
 & 10x - 9 + \dots = 31 + \dots \\
 & 10x = \dots \\
 & \frac{10x}{\quad} = \frac{\dots}{\quad} \\
 & \quad \quad \quad \dots \quad \quad \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (5) \quad & \frac{x+4}{6} = 4 \\
 & \frac{x+4}{6} \times \dots = 4 \times \dots \\
 & x+4 = \dots \\
 & x+4 - \dots = \dots - \dots \\
 & x = \dots
 \end{aligned}$$

$$\begin{aligned}
 (10) \quad & \frac{x-10}{4} = 5 \\
 & \frac{x-10}{4} \times \dots = 5 \times \dots \\
 & x-10 = \dots \\
 & x-10 + \dots = \dots + \dots \\
 & x = \dots
 \end{aligned}$$

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2-step Equations: Answers

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$$\begin{aligned}
 (1) \quad & 2(x+3) = 18 \\
 & \frac{2(x+3)}{2} = \frac{18}{2} \\
 & x+3 = 9 \\
 & x+3-3 = 9-3 \\
 & x = 6
 \end{aligned}$$

$$\begin{aligned}
 (6) \quad & 6x - 6 = 24 \\
 & 6x - 6 + 6 = 24 + 6 \\
 & 6x = 30 \\
 & \frac{6x}{6} = \frac{30}{6} \\
 & x = 5
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & \frac{x+4}{4} = 10 \\
 & \frac{x+4}{4} \times 4 = 10 \times 4 \\
 & x+4 = 40 \\
 & x+4-4 = 40-4 \\
 & x = 36
 \end{aligned}$$

$$\begin{aligned}
 (7) \quad & \frac{x-1}{7} = 4 \\
 & \frac{x-1}{7} \times 7 = 4 \times 7 \\
 & x-1 = 28 \\
 & x-1+1 = 28+1 \\
 & x = 29
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad & \frac{x+7}{8} = 6 \\
 & \frac{x+7}{8} \times 8 = 6 \times 8 \\
 & x+7 = 48 \\
 & x+7-7 = 48-7 \\
 & x = 41
 \end{aligned}$$

$$\begin{aligned}
 (8) \quad & \frac{x}{4} + 8 = 16 \\
 & \frac{x}{4} + 8 - 8 = 16 - 8 \\
 & \frac{x}{4} = 8 \\
 & \frac{x}{4} \times 4 = 8 \times 4 \\
 & x = 32
 \end{aligned}$$

$$\begin{aligned}
 (4) \quad & \frac{x-3}{6} = 4 \\
 & \frac{x-3}{6} \times 6 = 4 \times 6 \\
 & x-3 = 24 \\
 & x-3+3 = 24+3 \\
 & x = 27
 \end{aligned}$$

$$\begin{aligned}
 (9) \quad & 10x - 9 = 31 \\
 & 10x - 9 + 9 = 31 + 9 \\
 & 10x = 40 \\
 & \frac{10x}{10} = \frac{40}{10} \\
 & x = 4
 \end{aligned}$$

$$\begin{aligned}
 (5) \quad & \frac{x+4}{6} = 4 \\
 & \frac{x+4}{6} \times 6 = 4 \times 6 \\
 & x+4 = 24 \\
 & x+4-4 = 24-4 \\
 & x = 20
 \end{aligned}$$

$$\begin{aligned}
 (10) \quad & \frac{x-10}{4} = 5 \\
 & \frac{x-10}{4} \times 4 = 5 \times 4 \\
 & x-10 = 20 \\
 & x-10+10 = 20+10 \\
 & x = 30
 \end{aligned}$$