

Name: _____

Date: _____

Inverse operations: Answers

$$\begin{aligned}(1) \quad & \frac{x}{4} + 2 = 9 \\ & \frac{x}{4} + 2 - 2 = 9 - 2 \\ & \frac{x}{4} = 7 \\ & \frac{x}{4} \times 4 = 7 \times 4 \\ & x = 28\end{aligned}$$

$$\begin{aligned}(6) \quad & \frac{x}{6} + 5 = 9 \\ & \frac{x}{6} + 5 - 5 = 9 - 5 \\ & \frac{x}{6} = 4 \\ & \frac{x}{6} \times 6 = 4 \times 6 \\ & x = 24\end{aligned}$$

$$\begin{aligned}(2) \quad & \frac{x}{10} + 8 = 15 \\ & \frac{x}{10} + 8 - 8 = 15 - 8 \\ & \frac{x}{10} = 7 \\ & \frac{x}{10} \times 10 = 7 \times 10 \\ & x = 70\end{aligned}$$

$$\begin{aligned}(7) \quad & \frac{x}{10} + 3 = 10 \\ & \frac{x}{10} + 3 - 3 = 10 - 3 \\ & \frac{x}{10} = 7 \\ & \frac{x}{10} \times 10 = 7 \times 10 \\ & x = 70\end{aligned}$$

$$\begin{aligned}(3) \quad & \frac{x}{7} + 2 = 7 \\ & \frac{x}{7} + 2 - 2 = 7 - 2 \\ & \frac{x}{7} = 5 \\ & \frac{x}{7} \times 7 = 5 \times 7 \\ & x = 35\end{aligned}$$

$$\begin{aligned}(8) \quad & \frac{x}{3} + 3 = 13 \\ & \frac{x}{3} + 3 - 3 = 13 - 3 \\ & \frac{x}{3} = 10 \\ & \frac{x}{3} \times 3 = 10 \times 3 \\ & x = 30\end{aligned}$$

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

$$\begin{aligned}(9) \quad & \frac{x}{10} + 5 = 13 \\ & \frac{x}{10} + 5 - 5 = 13 - 5 \\ & \frac{x}{10} = 8 \\ & \frac{x}{10} \times 10 = 8 \times 10 \\ & x = 80\end{aligned}$$

$$\begin{aligned}(5) \quad & \frac{x}{2} + 3 = 7 \\ & \frac{x}{2} + 3 - 3 = 7 - 3 \\ & \frac{x}{2} = 4 \\ & \frac{x}{2} \times 2 = 4 \times 2 \\ & x = 8\end{aligned}$$

$$\begin{aligned}(10) \quad & \frac{x}{7} + 4 = 12 \\ & \frac{x}{7} + 4 - 4 = 12 - 4 \\ & \frac{x}{7} = 8 \\ & \frac{x}{7} \times 7 = 8 \times 7 \\ & x = 56\end{aligned}$$

$$\begin{aligned}
(11) \quad & \frac{x}{3} + 1 = 9 \\
& \frac{x}{3} + 1 - 1 = 9 - 1 \\
& \frac{x}{3} = 8 \\
& \frac{x}{3} \times 3 = 8 \times 3 \\
& x = 24
\end{aligned}$$

$$\begin{aligned}
(16) \quad & \frac{x}{10} + 8 = 16 \\
& \frac{x}{10} + 8 - 8 = 16 - 8 \\
& \frac{x}{10} = 8 \\
& \frac{x}{10} \times 10 = 8 \times 10 \\
& x = 80
\end{aligned}$$

$$\begin{aligned}
(12) \quad & \frac{x}{9} + 8 = 16 \\
& \frac{x}{9} + 8 - 8 = 16 - 8 \\
& \frac{x}{9} = 8 \\
& \frac{x}{9} \times 9 = 8 \times 9 \\
& x = 72
\end{aligned}$$

$$\begin{aligned}
(17) \quad & \frac{x}{6} + 5 = 8 \\
& \frac{x}{6} + 5 - 5 = 8 - 5 \\
& \frac{x}{6} = 3 \\
& \frac{x}{6} \times 6 = 3 \times 6 \\
& x = 18
\end{aligned}$$

$$\begin{aligned}
(13) \quad & \frac{x}{3} + 7 = 9 \\
& \frac{x}{3} + 7 - 7 = 9 - 7 \\
& \frac{x}{3} = 2 \\
& \frac{x}{3} \times 3 = 2 \times 3 \\
& x = 6
\end{aligned}$$

$$\begin{aligned}
(18) \quad & \frac{x}{2} + 10 = 20 \\
& \frac{x}{2} + 10 - 10 = 20 - 10 \\
& \frac{x}{2} = 10 \\
& \frac{x}{2} \times 2 = 10 \times 2 \\
& x = 20
\end{aligned}$$

$$\begin{aligned}
(14) \quad & \frac{x}{10} + 4 = 8 \\
& \frac{x}{10} + 4 - 4 = 8 - 4 \\
& \frac{x}{10} = 4 \\
& \frac{x}{10} \times 10 = 4 \times 10 \\
& x = 40
\end{aligned}$$

$$\begin{aligned}
(19) \quad & \frac{x}{9} + 4 = 8 \\
& \frac{x}{9} + 4 - 4 = 8 - 4 \\
& \frac{x}{9} = 4 \\
& \frac{x}{9} \times 9 = 4 \times 9 \\
& x = 36
\end{aligned}$$

$$\begin{aligned}
(15) \quad & \frac{x}{2} + 5 = 10 \\
& \frac{x}{2} + 5 - 5 = 10 - 5 \\
& \frac{x}{2} = 5 \\
& \frac{x}{2} \times 2 = 5 \times 2 \\
& x = 10
\end{aligned}$$

$$\begin{aligned}
(20) \quad & \frac{x}{7} + 4 = 8 \\
& \frac{x}{7} + 4 - 4 = 8 - 4 \\
& \frac{x}{7} = 4 \\
& \frac{x}{7} \times 7 = 4 \times 7 \\
& x = 28
\end{aligned}$$