

Name: _____

Date: _____

Inverse operations: Answers

$$\begin{aligned}(1) \quad & 9(x - 10) = -72 \\ & \frac{9(x - 10)}{9} = \frac{-72}{9} \\ & x - 10 = -8 \\ & x - 10 + 10 = -8 + 10 \\ & x = 2\end{aligned}$$

$$\begin{aligned}(6) \quad & 5(x - 10) = -45 \\ & \frac{5(x - 10)}{5} = \frac{-45}{5} \\ & x - 10 = -9 \\ & x - 10 + 10 = -9 + 10 \\ & x = 1\end{aligned}$$

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

$$\begin{aligned}(7) \quad & 10(x - 8) = -20 \\ & \frac{10(x - 8)}{10} = \frac{-20}{10} \\ & x - 8 = -2 \\ & x - 8 + 8 = -2 + 8 \\ & x = 6\end{aligned}$$

$$\begin{aligned}(3) \quad & 7(x - 6) = -14 \\ & \frac{7(x - 6)}{7} = \frac{-14}{7} \\ & x - 6 = -2 \\ & x - 6 + 6 = -2 + 6 \\ & x = 4\end{aligned}$$

$$\begin{aligned}(8) \quad & 6(x - 4) = 30 \\ & \frac{6(x - 4)}{6} = \frac{30}{6} \\ & x - 4 = 5 \\ & x - 4 + 4 = 5 + 4 \\ & x = 9\end{aligned}$$

$$\begin{aligned}(4) \quad & 9(x - 10) = 0 \\ & \frac{9(x - 10)}{9} = \frac{0}{9} \\ & x - 10 = 0 \\ & x - 10 + 10 = 0 + 10 \\ & x = 10\end{aligned}$$

$$\begin{aligned}(9) \quad & 2(x - 8) = -10 \\ & \frac{2(x - 8)}{2} = \frac{-10}{2} \\ & x - 8 = -5 \\ & x - 8 + 8 = -5 + 8 \\ & x = 3\end{aligned}$$

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

$$\begin{aligned}(10) \quad & 7(x - 6) = 14 \\ & \frac{7(x - 6)}{7} = \frac{14}{7} \\ & x - 6 = 2 \\ & x - 6 + 6 = 2 + 6 \\ & x = 8\end{aligned}$$

$$\begin{aligned}
(11) \quad & 3(x-1) = 9 \\
& \frac{3(x-1)}{3} = \frac{9}{3} \\
& x-1 = 3 \\
& x-1+1 = 3+1 \\
& x = 4
\end{aligned}$$

$$\begin{aligned}
(16) \quad & 10(x-4) = -10 \\
& \frac{10(x-4)}{10} = \frac{-10}{10} \\
& x-4 = -1 \\
& x-4+4 = -1+4 \\
& x = 3
\end{aligned}$$

$$\begin{aligned}
(12) \quad & 9(x-4) = 54 \\
& \frac{9(x-4)}{9} = \frac{54}{9} \\
& x-4 = 6 \\
& x-4+4 = 6+4 \\
& x = 10
\end{aligned}$$

$$\begin{aligned}
(17) \quad & 5(x-2) = 15 \\
& \frac{5(x-2)}{5} = \frac{15}{5} \\
& x-2 = 3 \\
& x-2+2 = 3+2 \\
& x = 5
\end{aligned}$$

$$\begin{aligned}
(13) \quad & 7(x-10) = -56 \\
& \frac{7(x-10)}{7} = \frac{-56}{7} \\
& x-10 = -8 \\
& x-10+10 = -8+10 \\
& x = 2
\end{aligned}$$

$$\begin{aligned}
(18) \quad & 6(x-2) = 30 \\
& \frac{6(x-2)}{6} = \frac{30}{6} \\
& x-2 = 5 \\
& x-2+2 = 5+2 \\
& x = 7
\end{aligned}$$

$$\begin{aligned}
(14) \quad & 10(x-2) = 0 \\
& \frac{10(x-2)}{10} = \frac{0}{10} \\
& x-2 = 0 \\
& x-2+2 = 0+2 \\
& x = 2
\end{aligned}$$

$$\begin{aligned}
(19) \quad & 2(x-9) = -14 \\
& \frac{2(x-9)}{2} = \frac{-14}{2} \\
& x-9 = -7 \\
& x-9+9 = -7+9 \\
& x = 2
\end{aligned}$$

$$\begin{aligned}
(15) \quad & 3(x-1) = 9 \\
& \frac{3(x-1)}{3} = \frac{9}{3} \\
& x-1 = 3 \\
& x-1+1 = 3+1 \\
& x = 4
\end{aligned}$$

$$\begin{aligned}
(20) \quad & 10(x-8) = -70 \\
& \frac{10(x-8)}{10} = \frac{-70}{10} \\
& x-8 = -7 \\
& x-8+8 = -7+8 \\
& x = 1
\end{aligned}$$