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Inverse operations: Answers

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$$\begin{aligned}(1) \quad & 2x + 5 = 7 \\ & 2x + 5 - 5 = 7 - 5 \\ & 2x = 2 \\ & \frac{2x}{2} = \frac{2}{2} \\ & x = 1\end{aligned}$$

$$\begin{aligned}(6) \quad & 7x + 6 = 13 \\ & 7x + 6 - 6 = 13 - 6 \\ & 7x = 7 \\ & \frac{7x}{7} = \frac{7}{7} \\ & x = 1\end{aligned}$$

$$\begin{aligned}(2) \quad & 9x + 2 = 83 \\ & 9x + 2 - 2 = 83 - 2 \\ & 9x = 81 \\ & \frac{9x}{9} = \frac{81}{9} \\ & x = 9\end{aligned}$$

$$\begin{aligned}(7) \quad & 3x + 9 = 39 \\ & 3x + 9 - 9 = 39 - 9 \\ & 3x = 30 \\ & \frac{3x}{3} = \frac{30}{3} \\ & x = 10\end{aligned}$$

$$\begin{aligned}(3) \quad & 10x + 1 = 71 \\ & 10x + 1 - 1 = 71 - 1 \\ & 10x = 70 \\ & \frac{10x}{10} = \frac{70}{10} \\ & x = 7\end{aligned}$$

$$\begin{aligned}(8) \quad & 9x + 1 = 19 \\ & 9x + 1 - 1 = 19 - 1 \\ & 9x = 18 \\ & \frac{9x}{9} = \frac{18}{9} \\ & x = 2\end{aligned}$$

$$\begin{aligned}(4) \quad & 5x + 10 = 45 \\ & 5x + 10 - 10 = 45 - 10 \\ & 5x = 35 \\ & \frac{5x}{5} = \frac{35}{5} \\ & x = 7\end{aligned}$$

$$\begin{aligned}(9) \quad & 2x + 10 = 20 \\ & 2x + 10 - 10 = 20 - 10 \\ & 2x = 10 \\ & \frac{2x}{2} = \frac{10}{2} \\ & x = 5\end{aligned}$$

$$\begin{aligned}(5) \quad & 8x + 3 = 51 \\ & 8x + 3 - 3 = 51 - 3 \\ & 8x = 48 \\ & \frac{8x}{8} = \frac{48}{8} \\ & x = 6\end{aligned}$$

$$\begin{aligned}(10) \quad & 3x + 6 = 21 \\ & 3x + 6 - 6 = 21 - 6 \\ & 3x = 15 \\ & \frac{3x}{3} = \frac{15}{3} \\ & x = 5\end{aligned}$$

(11)	$6x + 3 = 39$ $6x + 3 - 3 = 39 - 3$ $6x = 36$ $\frac{6x}{6} = \frac{36}{6}$ $x = 6$	(16)	$4x + 8 = 44$ $4x + 8 - 8 = 44 - 8$ $4x = 36$ $\frac{4x}{4} = \frac{36}{4}$ $x = 9$
(12)	$2x + 8 = 10$ $2x + 8 - 8 = 10 - 8$ $2x = 2$ $\frac{2x}{2} = \frac{2}{2}$ $x = 1$	(17)	$5x + 5 = 20$ $5x + 5 - 5 = 20 - 5$ $5x = 15$ $\frac{5x}{5} = \frac{15}{5}$ $x = 3$
(13)	$7x + 4 = 46$ $7x + 4 - 4 = 46 - 4$ $7x = 42$ $\frac{7x}{7} = \frac{42}{7}$ $x = 6$	(18)	$9x + 6 = 33$ $9x + 6 - 6 = 33 - 6$ $9x = 27$ $\frac{9x}{9} = \frac{27}{9}$ $x = 3$
(14)	$9x + 4 = 40$ $9x + 4 - 4 = 40 - 4$ $9x = 36$ $\frac{9x}{9} = \frac{36}{9}$ $x = 4$	(19)	$6x + 6 = 48$ $6x + 6 - 6 = 48 - 6$ $6x = 42$ $\frac{6x}{6} = \frac{42}{6}$ $x = 7$
(15)	$4x + 10 = 34$ $4x + 10 - 10 = 34 - 10$ $4x = 24$ $\frac{4x}{4} = \frac{24}{4}$ $x = 6$	(20)	$9x + 8 = 53$ $9x + 8 - 8 = 53 - 8$ $9x = 45$ $\frac{9x}{9} = \frac{45}{9}$ $x = 5$

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$$\begin{aligned}(1) \quad & 7x - 10 = 18 \\ & 7x - 10 + 10 = 18 + 10 \\ & 7x = 28 \\ & \frac{7x}{7} = \frac{28}{7} \\ & x = 4\end{aligned}$$

$$\begin{aligned}(6) \quad & 7x - 5 = 58 \\ & 7x - 5 + 5 = 58 + 5 \\ & 7x = 63 \\ & \frac{7x}{7} = \frac{63}{7} \\ & x = 9\end{aligned}$$

$$\begin{aligned}(2) \quad & 6x - 7 = 29 \\ & 6x - 7 + 7 = 29 + 7 \\ & 6x = 36 \\ & \frac{6x}{6} = \frac{36}{6} \\ & x = 6\end{aligned}$$

$$\begin{aligned}(7) \quad & 2x - 5 = 1 \\ & 2x - 5 + 5 = 1 + 5 \\ & 2x = 6 \\ & \frac{2x}{2} = \frac{6}{2} \\ & x = 3\end{aligned}$$

$$\begin{aligned}(3) \quad & 10x - 4 = 16 \\ & 10x - 4 + 4 = 16 + 4 \\ & 10x = 20 \\ & \frac{10x}{10} = \frac{20}{10} \\ & x = 2\end{aligned}$$

$$\begin{aligned}(8) \quad & 3x - 8 = 10 \\ & 3x - 8 + 8 = 10 + 8 \\ & 3x = 18 \\ & \frac{3x}{3} = \frac{18}{3} \\ & x = 6\end{aligned}$$

$$\begin{aligned}(4) \quad & 3x - 9 = 9 \\ & 3x - 9 + 9 = 9 + 9 \\ & 3x = 18 \\ & \frac{3x}{3} = \frac{18}{3} \\ & x = 6\end{aligned}$$

$$\begin{aligned}(9) \quad & 6x - 1 = 23 \\ & 6x - 1 + 1 = 23 + 1 \\ & 6x = 24 \\ & \frac{6x}{6} = \frac{24}{6} \\ & x = 4\end{aligned}$$

$$\begin{aligned}(5) \quad & 5x - 3 = 7 \\ & 5x - 3 + 3 = 7 + 3 \\ & 5x = 10 \\ & \frac{5x}{5} = \frac{10}{5} \\ & x = 2\end{aligned}$$

$$\begin{aligned}(10) \quad & 5x - 4 = 11 \\ & 5x - 4 + 4 = 11 + 4 \\ & 5x = 15 \\ & \frac{5x}{5} = \frac{15}{5} \\ & x = 3\end{aligned}$$

(11)	$8x - 1 = 23$ $8x - 1 + 1 = 23 + 1$ $8x = 24$ $\frac{8x}{8} = \frac{24}{8}$ $x = 3$	(16)	$7x - 6 = 57$ $7x - 6 + 6 = 57 + 6$ $7x = 63$ $\frac{7x}{7} = \frac{63}{7}$ $x = 9$
(12)	$10x - 4 = 36$ $10x - 4 + 4 = 36 + 4$ $10x = 40$ $\frac{10x}{10} = \frac{40}{10}$ $x = 4$	(17)	$6x - 3 = 33$ $6x - 3 + 3 = 33 + 3$ $6x = 36$ $\frac{6x}{6} = \frac{36}{6}$ $x = 6$
(13)	$9x - 2 = 52$ $9x - 2 + 2 = 52 + 2$ $9x = 54$ $\frac{9x}{9} = \frac{54}{9}$ $x = 6$	(18)	$2x - 1 = 13$ $2x - 1 + 1 = 13 + 1$ $2x = 14$ $\frac{2x}{2} = \frac{14}{2}$ $x = 7$
(14)	$9x - 3 = 60$ $9x - 3 + 3 = 60 + 3$ $9x = 63$ $\frac{9x}{9} = \frac{63}{9}$ $x = 7$	(19)	$6x - 8 = 10$ $6x - 8 + 8 = 10 + 8$ $6x = 18$ $\frac{6x}{6} = \frac{18}{6}$ $x = 3$
(15)	$4x - 5 = 23$ $4x - 5 + 5 = 23 + 5$ $4x = 28$ $\frac{4x}{4} = \frac{28}{4}$ $x = 7$	(20)	$4x - 7 = -3$ $4x - 7 + 7 = -3 + 7$ $4x = 4$ $\frac{4x}{4} = \frac{4}{4}$ $x = 1$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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$$\begin{aligned}
 (1) \quad & \frac{x}{10} - 10 = -2 \\
 & \frac{x}{10} - 10 + 10 = -2 + 10 \\
 & \frac{x}{10} = 8 \\
 & \frac{x}{10} \times 10 = 8 \times 10 \\
 & x = 80
 \end{aligned}$$

$$\begin{aligned}
 (6) \quad & \frac{x}{5} - 3 = 2 \\
 & \frac{x}{5} - 3 + 3 = 2 + 3 \\
 & \frac{x}{5} = 5 \\
 & \frac{x}{5} \times 5 = 5 \times 5 \\
 & x = 25
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & \frac{x}{8} - 5 = -2 \\
 & \frac{x}{8} - 5 + 5 = -2 + 5 \\
 & \frac{x}{8} = 3 \\
 & \frac{x}{8} \times 8 = 3 \times 8 \\
 & x = 24
 \end{aligned}$$

$$\begin{aligned}
 (7) \quad & \frac{x}{7} - 4 = 2 \\
 & \frac{x}{7} - 4 + 4 = 2 + 4 \\
 & \frac{x}{7} = 6 \\
 & \frac{x}{7} \times 7 = 6 \times 7 \\
 & x = 42
 \end{aligned}$$

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

$$\begin{aligned}
 (8) \quad & \frac{x}{8} - 7 = 3 \\
 & \frac{x}{8} - 7 + 7 = 3 + 7 \\
 & \frac{x}{8} = 10 \\
 & \frac{x}{8} \times 8 = 10 \times 8 \\
 & x = 80
 \end{aligned}$$

$$\begin{aligned}
 (4) \quad & \frac{x}{8} - 4 = 0 \\
 & \frac{x}{8} - 4 + 4 = 0 + 4 \\
 & \frac{x}{8} = 4 \\
 & \frac{x}{8} \times 8 = 4 \times 8 \\
 & x = 32
 \end{aligned}$$

$$\begin{aligned}
 (9) \quad & \frac{x}{4} - 1 = 8 \\
 & \frac{x}{4} - 1 + 1 = 8 + 1 \\
 & \frac{x}{4} = 9 \\
 & \frac{x}{4} \times 4 = 9 \times 4 \\
 & x = 36
 \end{aligned}$$

$$\begin{aligned}
 (5) \quad & \frac{x}{3} - 10 = -4 \\
 & \frac{x}{3} - 10 + 10 = -4 + 10 \\
 & \frac{x}{3} = 6 \\
 & \frac{x}{3} \times 3 = 6 \times 3 \\
 & x = 18
 \end{aligned}$$

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

$$\begin{aligned}
(11) \quad & \frac{x}{6} - 10 = -3 \\
& \frac{x}{6} - 10 + 10 = -3 + 10 \\
& \frac{x}{6} = 7 \\
& \frac{x}{6} \times 6 = 7 \times 6 \\
& x = 42
\end{aligned}$$

$$\begin{aligned}
(12) \quad & \frac{x}{2} - 10 = -4 \\
& \frac{x}{2} - 10 + 10 = -4 + 10 \\
& \frac{x}{2} = 6 \\
& \frac{x}{2} \times 2 = 6 \times 2 \\
& x = 12
\end{aligned}$$

$$\begin{aligned}
(13) \quad & \frac{x}{2} - 9 = 1 \\
& \frac{x}{2} - 9 + 9 = 1 + 9 \\
& \frac{x}{2} = 10 \\
& \frac{x}{2} \times 2 = 10 \times 2 \\
& x = 20
\end{aligned}$$

$$\begin{aligned}
(14) \quad & \frac{x}{10} - 9 = -4 \\
& \frac{x}{10} - 9 + 9 = -4 + 9 \\
& \frac{x}{10} = 5 \\
& \frac{x}{10} \times 10 = 5 \times 10 \\
& x = 50
\end{aligned}$$

$$\begin{aligned}
(15) \quad & \frac{x}{7} - 6 = -3 \\
& \frac{x}{7} - 6 + 6 = -3 + 6 \\
& \frac{x}{7} = 3 \\
& \frac{x}{7} \times 7 = 3 \times 7 \\
& x = 21
\end{aligned}$$

$$\begin{aligned}
(16) \quad & \frac{x}{8} - 4 = 5 \\
& \frac{x}{8} - 4 + 4 = 5 + 4 \\
& \frac{x}{8} = 9 \\
& \frac{x}{8} \times 8 = 9 \times 8 \\
& x = 72
\end{aligned}$$

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

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

$$\begin{aligned}
(19) \quad & \frac{x}{9} - 8 = -3 \\
& \frac{x}{9} - 8 + 8 = -3 + 8 \\
& \frac{x}{9} = 5 \\
& \frac{x}{9} \times 9 = 5 \times 9 \\
& x = 45
\end{aligned}$$

$$\begin{aligned}
(20) \quad & \frac{x}{5} - 1 = 2 \\
& \frac{x}{5} - 1 + 1 = 2 + 1 \\
& \frac{x}{5} = 3 \\
& \frac{x}{5} \times 5 = 3 \times 5 \\
& x = 15
\end{aligned}$$



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$$\begin{aligned}(1) \quad & 5(x+5) = 60 \\ & \frac{5(x+5)}{5} = \frac{60}{5} \\ & x+5 = 12 \\ & x+5-5 = 12-5 \\ & x = 7\end{aligned}$$

$$\begin{aligned}(6) \quad & 4(x+1) = 8 \\ & \frac{4(x+1)}{4} = \frac{8}{4} \\ & x+1 = 2 \\ & x+1-1 = 2-1 \\ & x = 1\end{aligned}$$

$$\begin{aligned}(2) \quad & 8(x+2) = 72 \\ & \frac{8(x+2)}{8} = \frac{72}{8} \\ & x+2 = 9 \\ & x+2-2 = 9-2 \\ & x = 7\end{aligned}$$

$$\begin{aligned}(7) \quad & 9(x+8) = 153 \\ & \frac{9(x+8)}{9} = \frac{153}{9} \\ & x+8 = 17 \\ & x+8-8 = 17-8 \\ & x = 9\end{aligned}$$

$$\begin{aligned}(3) \quad & 6(x+5) = 48 \\ & \frac{6(x+5)}{6} = \frac{48}{6} \\ & x+5 = 8 \\ & x+5-5 = 8-5 \\ & x = 3\end{aligned}$$

$$\begin{aligned}(8) \quad & 2(x+6) = 26 \\ & \frac{2(x+6)}{2} = \frac{26}{2} \\ & x+6 = 13 \\ & x+6-6 = 13-6 \\ & x = 7\end{aligned}$$

$$\begin{aligned}(4) \quad & 3(x+9) = 33 \\ & \frac{3(x+9)}{3} = \frac{33}{3} \\ & x+9 = 11 \\ & x+9-9 = 11-9 \\ & x = 2\end{aligned}$$

$$\begin{aligned}(9) \quad & 2(x+5) = 20 \\ & \frac{2(x+5)}{2} = \frac{20}{2} \\ & x+5 = 10 \\ & x+5-5 = 10-5 \\ & x = 5\end{aligned}$$

$$\begin{aligned}(5) \quad & 8(x+7) = 72 \\ & \frac{8(x+7)}{8} = \frac{72}{8} \\ & x+7 = 9 \\ & x+7-7 = 9-7 \\ & x = 2\end{aligned}$$

$$\begin{aligned}(10) \quad & 4(x+6) = 64 \\ & \frac{4(x+6)}{4} = \frac{64}{4} \\ & x+6 = 16 \\ & x+6-6 = 16-6 \\ & x = 10\end{aligned}$$

$$\begin{aligned}
 (11) \quad & 10(x+9) = 190 \\
 & \frac{10(x+9)}{10} = \frac{190}{10} \\
 & x+9 = 19 \\
 & x+9-9 = 19-9 \\
 & x = 10
 \end{aligned}$$

$$\begin{aligned}
 (16) \quad & 3(x+3) = 21 \\
 & \frac{3(x+3)}{3} = \frac{21}{3} \\
 & x+3 = 7 \\
 & x+3-3 = 7-3 \\
 & x = 4
 \end{aligned}$$

$$\begin{aligned}
 (12) \quad & 10(x+4) = 130 \\
 & \frac{10(x+4)}{10} = \frac{130}{10} \\
 & x+4 = 13 \\
 & x+4-4 = 13-4 \\
 & x = 9
 \end{aligned}$$

$$\begin{aligned}
 (17) \quad & 10(x+2) = 80 \\
 & \frac{10(x+2)}{10} = \frac{80}{10} \\
 & x+2 = 8 \\
 & x+2-2 = 8-2 \\
 & x = 6
 \end{aligned}$$

$$\begin{aligned}
 (13) \quad & 5(x+4) = 60 \\
 & \frac{5(x+4)}{5} = \frac{60}{5} \\
 & x+4 = 12 \\
 & x+4-4 = 12-4 \\
 & x = 8
 \end{aligned}$$

$$\begin{aligned}
 (18) \quad & 9(x+7) = 99 \\
 & \frac{9(x+7)}{9} = \frac{99}{9} \\
 & x+7 = 11 \\
 & x+7-7 = 11-7 \\
 & x = 4
 \end{aligned}$$

$$\begin{aligned}
 (14) \quad & 3(x+10) = 57 \\
 & \frac{3(x+10)}{3} = \frac{57}{3} \\
 & x+10 = 19 \\
 & x+10-10 = 19-10 \\
 & x = 9
 \end{aligned}$$

$$\begin{aligned}
 (19) \quad & 2(x+7) = 30 \\
 & \frac{2(x+7)}{2} = \frac{30}{2} \\
 & x+7 = 15 \\
 & x+7-7 = 15-7 \\
 & x = 8
 \end{aligned}$$

$$\begin{aligned}
 (15) \quad & 5(x+3) = 30 \\
 & \frac{5(x+3)}{5} = \frac{30}{5} \\
 & x+3 = 6 \\
 & x+3-3 = 6-3 \\
 & x = 3
 \end{aligned}$$

$$\begin{aligned}
 (20) \quad & 8(x+3) = 88 \\
 & \frac{8(x+3)}{8} = \frac{88}{8} \\
 & x+3 = 11 \\
 & x+3-3 = 11-3 \\
 & x = 8
 \end{aligned}$$

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$$\begin{aligned}(1) \quad & \frac{x+6}{4} = 3 \\ & \frac{x+6}{4} \times 4 = 3 \times 4 \\ & x+6 = 12 \\ & x+6-6 = 12-6 \\ & x = 6\end{aligned}$$

$$\begin{aligned}(6) \quad & \frac{x+1}{2} = 7 \\ & \frac{x+1}{2} \times 2 = 7 \times 2 \\ & x+1 = 14 \\ & x+1-1 = 14-1 \\ & x = 13\end{aligned}$$

$$\begin{aligned}(2) \quad & \frac{x+6}{6} = 3 \\ & \frac{x+6}{6} \times 6 = 3 \times 6 \\ & x+6 = 18 \\ & x+6-6 = 18-6 \\ & x = 12\end{aligned}$$

$$\begin{aligned}(7) \quad & \frac{x+3}{7} = 8 \\ & \frac{x+3}{7} \times 7 = 8 \times 7 \\ & x+3 = 56 \\ & x+3-3 = 56-3 \\ & x = 53\end{aligned}$$

$$\begin{aligned}(3) \quad & \frac{x+2}{10} = 5 \\ & \frac{x+2}{10} \times 10 = 5 \times 10 \\ & x+2 = 50 \\ & x+2-2 = 50-2 \\ & x = 48\end{aligned}$$

$$\begin{aligned}(8) \quad & \frac{x+1}{10} = 2 \\ & \frac{x+1}{10} \times 10 = 2 \times 10 \\ & x+1 = 20 \\ & x+1-1 = 20-1 \\ & x = 19\end{aligned}$$

$$\begin{aligned}(4) \quad & \frac{x+7}{4} = 3 \\ & \frac{x+7}{4} \times 4 = 3 \times 4 \\ & x+7 = 12 \\ & x+7-7 = 12-7 \\ & x = 5\end{aligned}$$

$$\begin{aligned}(9) \quad & \frac{x+5}{3} = 7 \\ & \frac{x+5}{3} \times 3 = 7 \times 3 \\ & x+5 = 21 \\ & x+5-5 = 21-5 \\ & x = 16\end{aligned}$$

$$\begin{aligned}(5) \quad & \frac{x+6}{7} = 2 \\ & \frac{x+6}{7} \times 7 = 2 \times 7 \\ & x+6 = 14 \\ & x+6-6 = 14-6 \\ & x = 8\end{aligned}$$

$$\begin{aligned}(10) \quad & \frac{x+5}{2} = 10 \\ & \frac{x+5}{2} \times 2 = 10 \times 2 \\ & x+5 = 20 \\ & x+5-5 = 20-5 \\ & x = 15\end{aligned}$$

$$\begin{aligned}
(11) \quad & \frac{x+8}{5} = 1 \\
& \frac{x+8}{5} \times 5 = 1 \times 5 \\
& x+8 = 5 \\
& x+8-8 = 5-8 \\
& x = -3
\end{aligned}$$

$$\begin{aligned}
(16) \quad & \frac{x+5}{8} = 9 \\
& \frac{x+5}{8} \times 8 = 9 \times 8 \\
& x+5 = 72 \\
& x+5-5 = 72-5 \\
& x = 67
\end{aligned}$$

$$\begin{aligned}
(12) \quad & \frac{x+7}{9} = 6 \\
& \frac{x+7}{9} \times 9 = 6 \times 9 \\
& x+7 = 54 \\
& x+7-7 = 54-7 \\
& x = 47
\end{aligned}$$

$$\begin{aligned}
(17) \quad & \frac{x+8}{2} = 4 \\
& \frac{x+8}{2} \times 2 = 4 \times 2 \\
& x+8 = 8 \\
& x+8-8 = 8-8 \\
& x = 0
\end{aligned}$$

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

$$\begin{aligned}
(18) \quad & \frac{x+10}{8} = 3 \\
& \frac{x+10}{8} \times 8 = 3 \times 8 \\
& x+10 = 24 \\
& x+10-10 = 24-10 \\
& x = 14
\end{aligned}$$

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

$$\begin{aligned}
(19) \quad & \frac{x+4}{9} = 8 \\
& \frac{x+4}{9} \times 9 = 8 \times 9 \\
& x+4 = 72 \\
& x+4-4 = 72-4 \\
& x = 68
\end{aligned}$$

$$\begin{aligned}
(15) \quad & \frac{x+4}{5} = 5 \\
& \frac{x+4}{5} \times 5 = 5 \times 5 \\
& x+4 = 25 \\
& x+4-4 = 25-4 \\
& x = 21
\end{aligned}$$

$$\begin{aligned}
(20) \quad & \frac{x+3}{9} = 5 \\
& \frac{x+3}{9} \times 9 = 5 \times 9 \\
& x+3 = 45 \\
& x+3-3 = 45-3 \\
& x = 42
\end{aligned}$$

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Inverse operations: Answers

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

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

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

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

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

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

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

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

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

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

(11)	$3(x - 1) = 9$ $\frac{3(x - 1)}{3} = \frac{9}{3}$ $x - 1 = 3$ $x - 1 + 1 = 3 + 1$ $x = 4$	(16)	$10(x - 4) = -10$ $\frac{10(x - 4)}{10} = \frac{-10}{10}$ $x - 4 = -1$ $x - 4 + 4 = -1 + 4$ $x = 3$
(12)	$9(x - 4) = 54$ $\frac{9(x - 4)}{9} = \frac{54}{9}$ $x - 4 = 6$ $x - 4 + 4 = 6 + 4$ $x = 10$	(17)	$5(x - 2) = 15$ $\frac{5(x - 2)}{5} = \frac{15}{5}$ $x - 2 = 3$ $x - 2 + 2 = 3 + 2$ $x = 5$
(13)	$7(x - 10) = -56$ $\frac{7(x - 10)}{7} = \frac{-56}{7}$ $x - 10 = -8$ $x - 10 + 10 = -8 + 10$ $x = 2$	(18)	$6(x - 2) = 30$ $\frac{6(x - 2)}{6} = \frac{30}{6}$ $x - 2 = 5$ $x - 2 + 2 = 5 + 2$ $x = 7$
(14)	$10(x - 2) = 0$ $\frac{10(x - 2)}{10} = \frac{0}{10}$ $x - 2 = 0$ $x - 2 + 2 = 0 + 2$ $x = 2$	(19)	$2(x - 9) = -14$ $\frac{2(x - 9)}{2} = \frac{-14}{2}$ $x - 9 = -7$ $x - 9 + 9 = -7 + 9$ $x = 2$
(15)	$3(x - 1) = 9$ $\frac{3(x - 1)}{3} = \frac{9}{3}$ $x - 1 = 3$ $x - 1 + 1 = 3 + 1$ $x = 4$	(20)	$10(x - 8) = -70$ $\frac{10(x - 8)}{10} = \frac{-70}{10}$ $x - 8 = -7$ $x - 8 + 8 = -7 + 8$ $x = 1$

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Inverse operations: Answers

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$$\begin{aligned}
 (1) \quad & \frac{x-3}{4} = 4 \\
 & \frac{x-3}{4} \times 4 = 4 \times 4 \\
 & x-3 = 16 \\
 & x-3+3 = 16+3 \\
 & x = 15
 \end{aligned}$$

$$\begin{aligned}
 (6) \quad & \frac{x-10}{6} = 3 \\
 & \frac{x-10}{6} \times 6 = 3 \times 6 \\
 & x-10 = 18 \\
 & x-10+10 = 18+10 \\
 & x = 70
 \end{aligned}$$

$$\begin{aligned}
 (2) \quad & \frac{x-7}{6} = 3 \\
 & \frac{x-7}{6} \times 6 = 3 \times 6 \\
 & x-7 = 18 \\
 & x-7+7 = 18+7 \\
 & x = 49
 \end{aligned}$$

$$\begin{aligned}
 (7) \quad & \frac{x-9}{4} = 5 \\
 & \frac{x-9}{4} \times 4 = 5 \times 4 \\
 & x-9 = 20 \\
 & x-9+9 = 20+9 \\
 & x = 45
 \end{aligned}$$

$$\begin{aligned}
 (3) \quad & \frac{x-10}{3} = 8 \\
 & \frac{x-10}{3} \times 3 = 8 \times 3 \\
 & x-10 = 24 \\
 & x-10+10 = 24+10 \\
 & x = 40
 \end{aligned}$$

$$\begin{aligned}
 (8) \quad & \frac{x-7}{10} = 2 \\
 & \frac{x-7}{10} \times 10 = 2 \times 10 \\
 & x-7 = 20 \\
 & x-7+7 = 20+7 \\
 & x = 77
 \end{aligned}$$

$$\begin{aligned}
 (4) \quad & \frac{x-4}{3} = 7 \\
 & \frac{x-4}{3} \times 3 = 7 \times 3 \\
 & x-4 = 21 \\
 & x-4+4 = 21+4 \\
 & x = 16
 \end{aligned}$$

$$\begin{aligned}
 (9) \quad & \frac{x-8}{10} = 2 \\
 & \frac{x-8}{10} \times 10 = 2 \times 10 \\
 & x-8 = 20 \\
 & x-8+8 = 20+8 \\
 & x = 88
 \end{aligned}$$

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

$$\begin{aligned}
 (10) \quad & \frac{x-4}{8} = 1 \\
 & \frac{x-4}{8} \times 8 = 1 \times 8 \\
 & x-4 = 8 \\
 & x-4+4 = 8+4 \\
 & x = 36
 \end{aligned}$$

$$\begin{aligned}
(11) \quad & \frac{x-7}{5} = 6 \\
& \frac{x-7}{5} \times 5 = 6 \times 5 \\
& x-7 = 30 \\
& x-7+7 = 30+7 \\
& x = 42
\end{aligned}$$

$$\begin{aligned}
(16) \quad & \frac{x-7}{9} = 4 \\
& \frac{x-7}{9} \times 9 = 4 \times 9 \\
& x-7 = 36 \\
& x-7+7 = 36+7 \\
& x = 70
\end{aligned}$$

$$\begin{aligned}
(12) \quad & \frac{x-4}{4} = 2 \\
& \frac{x-4}{4} \times 4 = 2 \times 4 \\
& x-4 = 8 \\
& x-4+4 = 8+4 \\
& x = 20
\end{aligned}$$

$$\begin{aligned}
(17) \quad & \frac{x-2}{7} = 5 \\
& \frac{x-2}{7} \times 7 = 5 \times 7 \\
& x-2 = 35 \\
& x-2+2 = 35+2 \\
& x = 16
\end{aligned}$$

$$\begin{aligned}
(13) \quad & \frac{x-4}{10} = 5 \\
& \frac{x-4}{10} \times 10 = 5 \times 10 \\
& x-4 = 50 \\
& x-4+4 = 50+4 \\
& x = 44
\end{aligned}$$

$$\begin{aligned}
(18) \quad & \frac{x-3}{10} = 7 \\
& \frac{x-3}{10} \times 10 = 7 \times 10 \\
& x-3 = 70 \\
& x-3+3 = 70+3 \\
& x = 33
\end{aligned}$$

$$\begin{aligned}
(14) \quad & \frac{x-5}{10} = 3 \\
& \frac{x-5}{10} \times 10 = 3 \times 10 \\
& x-5 = 30 \\
& x-5+5 = 30+5 \\
& x = 55
\end{aligned}$$

$$\begin{aligned}
(19) \quad & \frac{x-8}{3} = 3 \\
& \frac{x-8}{3} \times 3 = 3 \times 3 \\
& x-8 = 9 \\
& x-8+8 = 9+8 \\
& x = 32
\end{aligned}$$

$$\begin{aligned}
(15) \quad & \frac{x-1}{6} = 4 \\
& \frac{x-1}{6} \times 6 = 4 \times 6 \\
& x-1 = 24 \\
& x-1+1 = 24+1 \\
& x = 7
\end{aligned}$$

$$\begin{aligned}
(20) \quad & \frac{x-2}{3} = 4 \\
& \frac{x-2}{3} \times 3 = 4 \times 3 \\
& x-2 = 12 \\
& x-2+2 = 12+2 \\
& x = 8
\end{aligned}$$