

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

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

Inverse operations: Answers

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(1)

$$\begin{aligned}x + 10 &= 9 \\x + 10 - 10 &= 9 - 10 \\x &= -1\end{aligned}$$

(7)

$$\begin{aligned}x + 1 &= 10 \\x + 1 - 1 &= 10 - 1 \\x &= 9\end{aligned}$$

(2)

$$\begin{aligned}x + 6 &= 9 \\x + 6 - 6 &= 9 - 6 \\x &= 3\end{aligned}$$

(8)

$$\begin{aligned}x + 7 &= 4 \\x + 7 - 7 &= 4 - 7 \\x &= -3\end{aligned}$$

(3)

$$\begin{aligned}x + 7 &= 9 \\x + 7 - 7 &= 9 - 7 \\x &= 2\end{aligned}$$

(9)

$$\begin{aligned}x + 9 &= 10 \\x + 9 - 9 &= 10 - 9 \\x &= 1\end{aligned}$$

(4)

$$\begin{aligned}x + 5 &= 4 \\x + 5 - 5 &= 4 - 5 \\x &= -1\end{aligned}$$

(10)

$$\begin{aligned}x + 3 &= 4 \\x + 3 - 3 &= 4 - 3 \\x &= 1\end{aligned}$$

(5)

$$\begin{aligned}x + 9 &= 6 \\x + 9 - 9 &= 6 - 9 \\x &= -3\end{aligned}$$

(11)

$$\begin{aligned}x + 2 &= 7 \\x + 2 - 2 &= 7 - 2 \\x &= 5\end{aligned}$$

(6)

$$\begin{aligned}x + 4 &= 1 \\x + 4 - 4 &= 1 - 4 \\x &= -3\end{aligned}$$

(12)

$$\begin{aligned}x + 7 &= 4 \\x + 7 - 7 &= 4 - 7 \\x &= -3\end{aligned}$$

(13)

$$\begin{aligned}
 x + 1 &= 5 \\
 x + 1 - 1 &= 5 - 1 \\
 x &= 4
 \end{aligned}$$

(14)

$$\begin{aligned}
 x + 3 &= 1 \\
 x + 3 - 3 &= 1 - 3 \\
 x &= -2
 \end{aligned}$$

(15)

$$\begin{aligned}
 x + 9 &= 10 \\
 x + 9 - 9 &= 10 - 9 \\
 x &= 1
 \end{aligned}$$

(16)

$$\begin{aligned}
 x + 6 &= 9 \\
 x + 6 - 6 &= 9 - 6 \\
 x &= 3
 \end{aligned}$$

(17)

$$\begin{aligned}
 x + 5 &= 3 \\
 x + 5 - 5 &= 3 - 5 \\
 x &= -2
 \end{aligned}$$

(18)

$$\begin{aligned}
 x + 5 &= 2 \\
 x + 5 - 5 &= 2 - 5 \\
 x &= -3
 \end{aligned}$$

(19)

$$\begin{aligned}
 x + 10 &= 3 \\
 x + 10 - 10 &= 3 - 10 \\
 x &= -7
 \end{aligned}$$

(20)

$$\begin{aligned}
 x + 3 &= 3 \\
 x + 3 - 3 &= 3 - 3 \\
 x &= 0
 \end{aligned}$$

(21)

$$\begin{aligned}
 x + 2 &= 8 \\
 x + 2 - 2 &= 8 - 2 \\
 x &= 6
 \end{aligned}$$

(22)

$$\begin{aligned}
 x + 5 &= 7 \\
 x + 5 - 5 &= 7 - 5 \\
 x &= 2
 \end{aligned}$$

(23)

$$\begin{aligned}
 x + 7 &= 4 \\
 x + 7 - 7 &= 4 - 7 \\
 x &= -3
 \end{aligned}$$

(24)

$$\begin{aligned}
 x + 9 &= 1 \\
 x + 9 - 9 &= 1 - 9 \\
 x &= -8
 \end{aligned}$$

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(1)

$$\begin{aligned}x - 6 &= 4 \\x - 6 + 6 &= 4 + 6 \\x &= 10\end{aligned}$$

(7)

$$\begin{aligned}x - 5 &= 9 \\x - 5 + 5 &= 9 + 5 \\x &= 14\end{aligned}$$

(2)

$$\begin{aligned}x - 8 &= 7 \\x - 8 + 8 &= 7 + 8 \\x &= 15\end{aligned}$$

(8)

$$\begin{aligned}x - 4 &= 7 \\x - 4 + 4 &= 7 + 4 \\x &= 11\end{aligned}$$

(3)

$$\begin{aligned}x - 8 &= 2 \\x - 8 + 8 &= 2 + 8 \\x &= 10\end{aligned}$$

(9)

$$\begin{aligned}x - 6 &= 6 \\x - 6 + 6 &= 6 + 6 \\x &= 12\end{aligned}$$

(4)

$$\begin{aligned}x - 3 &= 3 \\x - 3 + 3 &= 3 + 3 \\x &= 6\end{aligned}$$

(10)

$$\begin{aligned}x - 1 &= 6 \\x - 1 + 1 &= 6 + 1 \\x &= 7\end{aligned}$$

(5)

$$\begin{aligned}x - 2 &= 7 \\x - 2 + 2 &= 7 + 2 \\x &= 9\end{aligned}$$

(11)

$$\begin{aligned}x - 8 &= 2 \\x - 8 + 8 &= 2 + 8 \\x &= 10\end{aligned}$$

(6)

$$\begin{aligned}x - 4 &= 9 \\x - 4 + 4 &= 9 + 4 \\x &= 13\end{aligned}$$

(12)

$$\begin{aligned}x - 4 &= 9 \\x - 4 + 4 &= 9 + 4 \\x &= 13\end{aligned}$$

(13)

$$\begin{aligned}
 x - 10 &= 10 \\
 x - 10 + 10 &= 10 + 10 \\
 x &= 20
 \end{aligned}$$

(14)

$$\begin{aligned}
 x - 1 &= 8 \\
 x - 1 + 1 &= 8 + 1 \\
 x &= 9
 \end{aligned}$$

(15)

$$\begin{aligned}
 x - 4 &= 2 \\
 x - 4 + 4 &= 2 + 4 \\
 x &= 6
 \end{aligned}$$

(16)

$$\begin{aligned}
 x - 5 &= 4 \\
 x - 5 + 5 &= 4 + 5 \\
 x &= 9
 \end{aligned}$$

(17)

$$\begin{aligned}
 x - 4 &= 9 \\
 x - 4 + 4 &= 9 + 4 \\
 x &= 13
 \end{aligned}$$

(18)

$$\begin{aligned}
 x - 1 &= 3 \\
 x - 1 + 1 &= 3 + 1 \\
 x &= 4
 \end{aligned}$$

(19)

$$\begin{aligned}
 x - 8 &= 3 \\
 x - 8 + 8 &= 3 + 8 \\
 x &= 11
 \end{aligned}$$

(20)

$$\begin{aligned}
 x - 10 &= 7 \\
 x - 10 + 10 &= 7 + 10 \\
 x &= 17
 \end{aligned}$$

(21)

$$\begin{aligned}
 x - 3 &= 4 \\
 x - 3 + 3 &= 4 + 3 \\
 x &= 7
 \end{aligned}$$

(22)

$$\begin{aligned}
 x - 5 &= 4 \\
 x - 5 + 5 &= 4 + 5 \\
 x &= 9
 \end{aligned}$$

(23)

$$\begin{aligned}
 x - 9 &= 5 \\
 x - 9 + 9 &= 5 + 9 \\
 x &= 14
 \end{aligned}$$

(24)

$$\begin{aligned}
 x - 9 &= 4 \\
 x - 9 + 9 &= 4 + 9 \\
 x &= 13
 \end{aligned}$$

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Inverse operations: Answers

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(1)

$$\begin{aligned}4x &= 32 \\ \frac{4x}{4} &= \frac{32}{4} \\ x &= 8\end{aligned}$$

(7)

$$\begin{aligned}8x &= 16 \\ \frac{8x}{8} &= \frac{16}{8} \\ x &= 2\end{aligned}$$

(2)

$$\begin{aligned}2x &= 20 \\ \frac{2x}{2} &= \frac{20}{2} \\ x &= 10\end{aligned}$$

(8)

$$\begin{aligned}7x &= 35 \\ \frac{7x}{7} &= \frac{35}{7} \\ x &= 5\end{aligned}$$

(3)

$$\begin{aligned}4x &= 12 \\ \frac{4x}{4} &= \frac{12}{4} \\ x &= 3\end{aligned}$$

(9)

$$\begin{aligned}8x &= 16 \\ \frac{8x}{8} &= \frac{16}{8} \\ x &= 2\end{aligned}$$

(4)

$$\begin{aligned}6x &= 24 \\ \frac{6x}{6} &= \frac{24}{6} \\ x &= 4\end{aligned}$$

(10)

$$\begin{aligned}2x &= 6 \\ \frac{2x}{2} &= \frac{6}{2} \\ x &= 3\end{aligned}$$

(5)

$$\begin{aligned}9x &= 90 \\ \frac{9x}{9} &= \frac{90}{9} \\ x &= 10\end{aligned}$$

(11)

$$\begin{aligned}9x &= 72 \\ \frac{9x}{9} &= \frac{72}{9} \\ x &= 8\end{aligned}$$

(6)

$$\begin{aligned}9x &= 63 \\ \frac{9x}{9} &= \frac{63}{9} \\ x &= 7\end{aligned}$$

(12)

$$\begin{aligned}4x &= 40 \\ \frac{4x}{4} &= \frac{40}{4} \\ x &= 10\end{aligned}$$

(13)

$$\begin{aligned}
 5x &= 50 \\
 \frac{5x}{5} &= \frac{50}{5} \\
 x &= 10
 \end{aligned}$$

(14)

$$\begin{aligned}
 9x &= 36 \\
 \frac{9x}{9} &= \frac{36}{9} \\
 x &= 4
 \end{aligned}$$

(15)

$$\begin{aligned}
 10x &= 70 \\
 \frac{10x}{10} &= \frac{70}{10} \\
 x &= 7
 \end{aligned}$$

(16)

$$\begin{aligned}
 3x &= 12 \\
 \frac{3x}{3} &= \frac{12}{3} \\
 x &= 4
 \end{aligned}$$

(17)

$$\begin{aligned}
 9x &= 72 \\
 \frac{9x}{9} &= \frac{72}{9} \\
 x &= 8
 \end{aligned}$$

(18)

$$\begin{aligned}
 2x &= 16 \\
 \frac{2x}{2} &= \frac{16}{2} \\
 x &= 8
 \end{aligned}$$

(19)

$$\begin{aligned}
 5x &= 35 \\
 \frac{5x}{5} &= \frac{35}{5} \\
 x &= 7
 \end{aligned}$$

(20)

$$\begin{aligned}
 10x &= 80 \\
 \frac{10x}{10} &= \frac{80}{10} \\
 x &= 8
 \end{aligned}$$

(21)

$$\begin{aligned}
 8x &= 80 \\
 \frac{8x}{8} &= \frac{80}{8} \\
 x &= 10
 \end{aligned}$$

(22)

$$\begin{aligned}
 4x &= 36 \\
 \frac{4x}{4} &= \frac{36}{4} \\
 x &= 9
 \end{aligned}$$

(23)

$$\begin{aligned}
 10x &= 20 \\
 \frac{10x}{10} &= \frac{20}{10} \\
 x &= 2
 \end{aligned}$$

(24)

$$\begin{aligned}
 5x &= 35 \\
 \frac{5x}{5} &= \frac{35}{5} \\
 x &= 7
 \end{aligned}$$

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(1)

$$\begin{aligned}\frac{x}{5} &= 3 \\ \frac{x}{5} \times 5 &= 3 \times 5 \\ x &= 15\end{aligned}$$

(7)

$$\begin{aligned}\frac{x}{9} &= 5 \\ \frac{x}{9} \times 9 &= 5 \times 9 \\ x &= 45\end{aligned}$$

(2)

$$\begin{aligned}\frac{x}{2} &= 9 \\ \frac{x}{2} \times 2 &= 9 \times 2 \\ x &= 18\end{aligned}$$

(8)

$$\begin{aligned}\frac{x}{2} &= 3 \\ \frac{x}{2} \times 2 &= 3 \times 2 \\ x &= 6\end{aligned}$$

(3)

$$\begin{aligned}\frac{x}{3} &= 5 \\ \frac{x}{3} \times 3 &= 5 \times 3 \\ x &= 15\end{aligned}$$

(9)

$$\begin{aligned}\frac{x}{9} &= 4 \\ \frac{x}{9} \times 9 &= 4 \times 9 \\ x &= 36\end{aligned}$$

(4)

$$\begin{aligned}\frac{x}{9} &= 7 \\ \frac{x}{9} \times 9 &= 7 \times 9 \\ x &= 63\end{aligned}$$

(10)

$$\begin{aligned}\frac{x}{8} &= 10 \\ \frac{x}{8} \times 8 &= 10 \times 8 \\ x &= 80\end{aligned}$$

(5)

$$\begin{aligned}\frac{x}{8} &= 10 \\ \frac{x}{8} \times 8 &= 10 \times 8 \\ x &= 80\end{aligned}$$

(11)

$$\begin{aligned}\frac{x}{5} &= 5 \\ \frac{x}{5} \times 5 &= 5 \times 5 \\ x &= 25\end{aligned}$$

(6)

$$\begin{aligned}\frac{x}{2} &= 2 \\ \frac{x}{2} \times 2 &= 2 \times 2 \\ x &= 4\end{aligned}$$

(12)

$$\begin{aligned}\frac{x}{5} &= 3 \\ \frac{x}{5} \times 5 &= 3 \times 5 \\ x &= 15\end{aligned}$$

(13)

$$\begin{aligned}\frac{x}{2} &= 9 \\ \frac{x}{2} \times 2 &= 9 \times 2 \\ x &= 18\end{aligned}$$

(14)

$$\begin{aligned}\frac{x}{3} &= 4 \\ \frac{x}{3} \times 3 &= 4 \times 3 \\ x &= 12\end{aligned}$$

(15)

$$\begin{aligned}\frac{x}{9} &= 6 \\ \frac{x}{9} \times 9 &= 6 \times 9 \\ x &= 54\end{aligned}$$

(16)

$$\begin{aligned}\frac{x}{9} &= 5 \\ \frac{x}{9} \times 9 &= 5 \times 9 \\ x &= 45\end{aligned}$$

(17)

$$\begin{aligned}\frac{x}{10} &= 7 \\ \frac{x}{10} \times 10 &= 7 \times 10 \\ x &= 70\end{aligned}$$

(18)

$$\begin{aligned}\frac{x}{4} &= 3 \\ \frac{x}{4} \times 4 &= 3 \times 4 \\ x &= 12\end{aligned}$$

(19)

$$\begin{aligned}\frac{x}{3} &= 7 \\ \frac{x}{3} \times 3 &= 7 \times 3 \\ x &= 21\end{aligned}$$

(20)

$$\begin{aligned}\frac{x}{8} &= 4 \\ \frac{x}{8} \times 8 &= 4 \times 8 \\ x &= 32\end{aligned}$$

(21)

$$\begin{aligned}\frac{x}{7} &= 6 \\ \frac{x}{7} \times 7 &= 6 \times 7 \\ x &= 42\end{aligned}$$

(22)

$$\begin{aligned}\frac{x}{4} &= 6 \\ \frac{x}{4} \times 4 &= 6 \times 4 \\ x &= 24\end{aligned}$$

(23)

$$\begin{aligned}\frac{x}{5} &= 10 \\ \frac{x}{5} \times 5 &= 10 \times 5 \\ x &= 50\end{aligned}$$

(24)

$$\begin{aligned}\frac{x}{7} &= 4 \\ \frac{x}{7} \times 7 &= 4 \times 7 \\ x &= 28\end{aligned}$$



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Inverse operations: Answers

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(1)

$$\begin{aligned}4x &= 40 \\ \frac{4x}{4} &= \frac{40}{4} \\ x &= 10\end{aligned}$$

(7)

$$\begin{aligned}10x &= 50 \\ \frac{10x}{10} &= \frac{50}{10} \\ x &= 5\end{aligned}$$

(2)

$$\begin{aligned}\frac{x}{4} &= 9 \\ \frac{x}{4} \times 4 &= 9 \times 4 \\ x &= 36\end{aligned}$$

(8)

$$\begin{aligned}\frac{x}{5} &= 8 \\ \frac{x}{5} \times 5 &= 8 \times 5 \\ x &= 40\end{aligned}$$

(3)

$$\begin{aligned}x + 1 &= 6 \\ x + 1 - 1 &= 6 - 1 \\ x &= 5\end{aligned}$$

(9)

$$\begin{aligned}x - 4 &= 7 \\ x - 4 + 4 &= 7 + 4 \\ x &= 11\end{aligned}$$

(4)

$$\begin{aligned}\frac{x}{8} &= 3 \\ \frac{x}{8} \times 8 &= 3 \times 8 \\ x &= 24\end{aligned}$$

(10)

$$\begin{aligned}4x &= 28 \\ \frac{4x}{4} &= \frac{28}{4} \\ x &= 7\end{aligned}$$

(5)

$$\begin{aligned}10x &= 30 \\ \frac{10x}{10} &= \frac{30}{10} \\ x &= 3\end{aligned}$$

(11)

$$\begin{aligned}6x &= 36 \\ \frac{6x}{6} &= \frac{36}{6} \\ x &= 6\end{aligned}$$

(6)

$$\begin{aligned}\frac{x}{5} &= 3 \\ \frac{x}{5} \times 5 &= 3 \times 5 \\ x &= 15\end{aligned}$$

(12)

$$\begin{aligned}x - 5 &= 7 \\ x - 5 + 5 &= 7 + 5 \\ x &= 12\end{aligned}$$

(13)

$$\begin{aligned}
 x - 9 &= 6 \\
 x - 9 + 9 &= 6 + 9 \\
 x &= 15
 \end{aligned}$$

(14)

$$\begin{aligned}
 \frac{x}{10} &= 7 \\
 \frac{x}{10} \times 10 &= 7 \times 10 \\
 x &= 70
 \end{aligned}$$

(15)

$$\begin{aligned}
 6x &= 60 \\
 \frac{6x}{6} &= \frac{60}{6} \\
 x &= 10
 \end{aligned}$$

(16)

$$\begin{aligned}
 8x &= 64 \\
 \frac{8x}{8} &= \frac{64}{8} \\
 x &= 8
 \end{aligned}$$

(17)

$$\begin{aligned}
 9x &= 18 \\
 \frac{9x}{9} &= \frac{18}{9} \\
 x &= 2
 \end{aligned}$$

(18)

$$\begin{aligned}
 8x &= 24 \\
 \frac{8x}{8} &= \frac{24}{8} \\
 x &= 3
 \end{aligned}$$

(19)

$$\begin{aligned}
 2x &= 18 \\
 \frac{2x}{2} &= \frac{18}{2} \\
 x &= 9
 \end{aligned}$$

(20)

$$\begin{aligned}
 4x &= 28 \\
 \frac{4x}{4} &= \frac{28}{4} \\
 x &= 7
 \end{aligned}$$

(21)

$$\begin{aligned}
 x - 2 &= 9 \\
 x - 2 + 2 &= 9 + 2 \\
 x &= 11
 \end{aligned}$$

(22)

$$\begin{aligned}
 x - 10 &= 10 \\
 x - 10 + 10 &= 10 + 10 \\
 x &= 20
 \end{aligned}$$

(23)

$$\begin{aligned}
 \frac{x}{9} &= 10 \\
 \frac{x}{9} \times 9 &= 10 \times 9 \\
 x &= 90
 \end{aligned}$$

(24)

$$\begin{aligned}
 \frac{x}{2} &= 3 \\
 \frac{x}{2} \times 2 &= 3 \times 2 \\
 x &= 6
 \end{aligned}$$