

Solve each of the following equations by using inverse operations. Show all work.

1. $x - 6 = 8$

2. $m + 4 = 13$

3. $7 \cdot v = 28$

4. $y \div 6 = 10$

5. $65 = t + 19$

6. $45 = n - 21$

7. $64 = 4 \cdot f$

8. $\frac{b}{8} = 4$

9. $r \div 11 = 11$

10. $19 + x = 81$

11. $h \cdot 8 = 8$

12. $z - 17 = 34$

13. $12 + x + 7 = 26$

14. $42 = 13 + x + 12$

Challenge:

15. $3x - 6 = 15$

Solve each of the following equations by using inverse operations. Show all work.

$$1. \quad x - 6 = 8$$

$$\begin{array}{c} +6 \quad +6 \\ \hline x = 14 \end{array}$$

$$2. \quad m + 4 = 13$$

$$\begin{array}{c} -4 \quad -4 \\ \hline m = 9 \end{array}$$

$$3. \quad 7 \cdot v = 28$$

$$\begin{array}{c} \div 7 \quad \div 7 \\ \hline v = 4 \end{array}$$

$$4. \quad y \div 6 = 10$$

$$\begin{array}{c} \cdot 6 \quad \cdot 6 \\ \hline y = 60 \end{array}$$

$$5. \quad 65 = t + 19$$

$$\begin{array}{c} -19 \quad -19 \\ \hline 46 = t \end{array}$$

$$6. \quad 45 = n - 21$$

$$\begin{array}{c} +21 \quad +21 \\ \hline 66 = n \end{array}$$

$$7. \quad 64 = 4 \cdot f$$

$$\begin{array}{c} \div 4 \quad \div 4 \\ \hline 16 = f \end{array}$$

$$8. \quad \frac{b}{8} = 4 \cdot 8$$

$$\begin{array}{c} \cdot 8 \quad \cdot 8 \\ \hline b = 32 \end{array}$$

$$9. \quad r \div 11 = 11$$

$$\begin{array}{c} \cdot 11 \quad \cdot 11 \\ \hline r = 121 \end{array}$$

$$10. \quad 19 + x = 81$$

$$\begin{array}{c} -19 \quad -19 \\ \hline x = 62 \end{array}$$

$$11. \quad h \cdot 8 = 8$$

$$\begin{array}{c} \div 8 \quad \div 8 \\ \hline h = 1 \end{array}$$

$$12. \quad z - 17 = 34$$

$$\begin{array}{c} +17 \quad +17 \\ \hline z = 51 \end{array}$$

$$13. \quad 12 + x + 7 = 26$$

$$\begin{array}{c} x + 19 = 26 \\ -19 \quad -19 \\ \hline x = 7 \end{array}$$

$$14. \quad 42 = 13 + x + 12$$

$$\begin{array}{c} 42 = x + 25 \\ -25 \quad -25 \\ \hline 17 = x \end{array}$$

Challenge:

$$15. \quad 3x - 6 = 15$$

$$\begin{array}{c} +6 \quad +6 \\ \hline 3x = 21 \\ \div 3 \quad \div 3 \\ \hline x = 7 \end{array}$$