

Solve One-Step Multiplication and Division Equations

You can solve one-step equations using **inverse operations**. For example, multiplication and division are inverse operations. To solve a one-step multiplication or division equation, apply the inverse operation to both sides of the equation to get the variable alone.

Let's try it! Solve each equation.

$$8c = 24$$

$$\frac{8c}{8} = \frac{24}{8}$$

$$c = 3$$

Divide both sides of the equation by 8.

$$\frac{t}{9} = 5$$

$$\frac{t}{9} \cdot 9 = 5 \cdot 9$$

$$t = 45$$

Multiply both sides of the equation by 9.

Try it yourself! Solve each equation.

1. $7m = 21$	2. $\frac{a}{2} = 12$	3. $6p = 60$
4. $\frac{x}{4} = 8$	5. $5j = 65$	6. $\frac{h}{8} = 5$
7. $3y = 48$	8. $\frac{d}{12} = 9$	9. $\frac{z}{6} = 14$
10. $25u = 200$	11. $\frac{r}{6} = 20$	12. $8q = 480$
13. $\frac{b}{15} = 7$	14. $4g = 72$	15. $\frac{v}{8} = 17$