

3-1 Notes

Friday, October 2, 2026 8:35 AM

Equation: A statement where two expressions are equal

Inverse Operations: Operations that undo each other

$$\boxed{-+} \quad \boxed{\times \div}$$

Variable: A letter that represents an unknown number x, y, a, b

Isolate the Variable



Get it alone

Solve.

1. $y + 7 = 10$
 $-7 \quad -7$
 $y = 3$

2. $x - 5 = 3$
 $+5 \quad +5$
 $x = 8$

3. $q - 11 = -5$
 $+11 \quad +11$
 $q = 6$

4. $6 = t - 2$
 $+2 \quad +2$
 $8 = t$

5. $4x = 48$
 $\div 4 \quad \div 4$
 $x = 12$

6. $-65 = -5y$
 $\div -5 \quad \div -5$
 $13 = y$

7. $6w = -54$
 $\div 6 \quad \div 6$
 $w = -9$

8. $24 = -8n$
 $\div -8 \quad \div -8$
 $-3 = n$

9. $\frac{t}{3} = 9$
 $\cdot 3 \quad \cdot 3$
 $t = 27$

10. $6 = \frac{c}{7}$
 $\cdot 7 \quad \cdot 7$
 $42 = c$

11. $13 = \frac{z}{-2}$
 $\cdot -2 \quad \cdot -2$
 $-26 = z$

12. $\frac{a}{5} = -11$
 $\cdot 5 \quad \cdot 5$
 $a = -55$