

Solve the following equations

STEPS

1. Work backwards through Reverse BEDMAS.
2. Isolate the variable by
  - a) REVERSE OPERATION and
  - b) SAME to BOTH SIDES

$$1. \quad \frac{2x}{2} = \frac{12}{2}$$

$$x = 6$$

$$2. \quad x - 4 = -1$$

$$x - 4 + 4 = -1 + 4$$

$$x = 3$$

$$3. \quad x + 5 = 3$$

$$x + 5 - 5 = 3 - 5$$

$$x = -2$$

$$4. \quad \frac{8a}{8} = \frac{-24}{8}$$

$$a = 3$$

$$5. \quad \frac{12n}{12} = \frac{-3}{12}$$

$$n = \frac{-3}{12}$$

$$n = \frac{-1}{4}$$

$$6. \quad 2x + 3 = 11$$

$$2x + 3 - 3 = 11 - 3$$

$$\frac{2x}{2} = \frac{8}{2}$$

$$x = 4$$

$$7. \quad 12 = 4y + 9$$

$$12 - 9 = 4y + 9 - 9$$

$$\frac{3}{4} = \frac{4y}{4} \quad y = \frac{3}{4}$$

$$8. \quad 5x - 7 = 2$$

$$5x - 7 + 7 = 2 + 7$$

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

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

$$9. \quad 3a + 6 = -9$$

$$3a + 6 - 6 = -9 - 6$$

$$\frac{3a}{3} = \frac{-15}{3}$$

$$a = -5$$

$$10. \quad -8x = 4x + 6$$

~~$$-8x - 6 = 4x + 6 - 6$$~~
~~$$-8x = 4x$$~~

$$-8x - 4x = 4x - 4x + 6$$

$$\frac{-12x}{-12} = \frac{6}{-12}$$

$$x = -\frac{1}{2}$$