

Name _____

Period _____

Solving for a Variable

Solve each equation for the given variable.

1. Solve for a : $F = ma$

2. Solve for b : $y = mx + b$

3. Solve for x_1 : $M = \frac{x_1 + x_2}{2}$

4. Solve for h : $A = \frac{1}{2}bh$

5. Solve for b_1 : $A = \frac{(b_1 + b_2)h}{2}$

6. Solve for r : $A = \pi r^2$

7. Solve for r : $C = 2\pi r$

8. Solve for B : $V = \frac{1}{3}Bh$

9. Solve for V : $d = \frac{m}{V}$

10. Solve for r : $I = Prt$

11. Solve for m : $E = mc^2$

12. Solve for w : $P = 2l + 2w$

Solving for a Variable – Answers

Solve each equation for the given variable.

1. Solve for a : $F = ma$

$$a = \frac{F}{m}$$

2. Solve for b : $y = mx + b$

$$b = y - mx$$

3. Solve for x_1 : $M = \frac{x_1 + x_2}{2}$

$$x_1 = 2M - x_2$$

4. Solve for h : $A = \frac{1}{2}bh$

$$h = \frac{2A}{b}$$

5. Solve for b_1 : $A = \frac{(b_1 + b_2)h}{2}$

$$b_1 = \frac{2A}{h} - b_2$$

6. Solve for r : $A = \pi r^2$

$$r = \sqrt{\frac{A}{\pi}}$$

7. Solve for r : $C = 2\pi r$

$$r = \frac{C}{2\pi}$$

8. Solve for B : $V = \frac{1}{3}Bh$

$$B = \frac{3V}{h}$$

9. Solve for V : $d = \frac{m}{V}$

$$V = \frac{m}{d}$$

10. Solve for r : $I = Prt$

$$r = \frac{I}{Pt}$$

11. Solve for m : $E = mc^2$

$$m = \frac{E}{c^2}$$

12. Solve for w : $P = 2l + 2w$

$$w = \frac{P-2l}{2}$$