

Name:

Date:

Period:

Using your knowledge of solving equations, rearrange each formula to solve for the specified variable. Assume no variable is equal to 0.

Examples:

1. Given: $A = P(1 + rt)$, Solve for P.

2. Given: $A = P(1 + rt)$, Solve for t.

3. Given $K = \frac{1}{2}mv^2$, Solve for m.

4. Given $K = \frac{1}{2}mv^2$, Solve for v.

Independent Practice Problems. COPY PROBLEMS AND SHOW ALL YOUR WORK IN YOUR NOTEBOOK.

1. Solve $ax + b = d - cx$ for x.

2. Solve $3x + 4 = 6 - 5x$ for x.

3. Solve for x. $\frac{ax}{b} + \frac{cx}{d} = e$

4. Solve for x. $\frac{2x}{5} + \frac{x}{7} = 3$

5. Solve for x. $rx + h = sx - k$

6. Solve for x. $3px = 2q(r - 5x)$

7. Solve for x. $\frac{3ax+2b}{c} = 4d$

8. Solve for x. $\frac{x}{6} - \frac{x}{7} = ab$

9. Solve for x. $\frac{x}{m} - \frac{x}{n} = \frac{1}{p}$

10. Solve for y. $\frac{y-b}{m} = x$

11. Solve for x. $ax + 3b = 2f$

12. Solve for x. $\frac{x+b}{4} = c$

13. Solve for x. $\frac{x}{5} - 7 = 2q$

14. Solve for m. $t = \frac{ms}{m+n}$

15. Solve for u. $\frac{1}{u} + \frac{1}{v} = \frac{1}{f}$

16. Solve for s. $A = s^2$

17. Solve for h. $V = \pi r^2 h$

18. Solve for m. $T = 4\sqrt{m}$

19. Solve for y. $ax + by = c$

20. Solve for b_1 . $A = \frac{1}{2}h(b_1 + b_2)$