

Chapter 3 Review

Solve for x

1. $themx - me = you$

2. $P = \frac{1}{2}xt^2 - tn$

3. $3x - 5 + 2x - 10 = x + 5x + 5$

4. $\frac{2}{3}x - \frac{2}{3} = x + \frac{1}{6}$

5. $3(2x - 1) + 2(x - 1) = 8x$

6. $\frac{1}{3}(2x + 3) + 2 = \frac{3}{4}(x + 4)$

7. $5 - 2x \geq 143$

8. $\frac{2}{5}(2x - 5) > \frac{3}{2}(3x - 2)$

9. $5x - score \leq your + 12x$

10. $-5 \leq 2x - 3 < 5$

11. $1 < 2x - 3 - 5x \leq 10$

12. $|3x - 1| = 12$

13. How much money should be invested at 8% simple interest to get between \$1000 and \$1200?

For the new few problems, you get to make up your own word problems!

Make a word problem with **mixtures/liquid solutions**, then one using **things of value**, one using **consecutive integers**, one with **fixed and variable cost**, and one using **markup or markdown prices**. Provide a full answer to each!