



ACT COMPASS Preparation Worksheet

Algebra: Setting up Equations

1. $\frac{6}{x} - 10 = 42$

2. $17 = 3x - 5$

3. $x + \frac{20}{x}$

4. $x(15 - x)$

5. $y = \frac{z + 12}{5x}$

6. $5x + 10y + 125$

7. $5n + 10(32 - n) = 245$

8. $x(x - 12)$

9. $30 - 2w$

10. $\frac{x}{3} + \frac{x}{4} = 1$

11. $\frac{2(82.5) + x}{3} = 85$

12. $x + x + 1 + x + 2 = 78$

13. $x + x + 2 + x + 4 = 177$

14. $12(x - 7)$

15. $x(x + 5)(x + 9)$

16. $(2x - 7)^3 - 15 = 0$