

Multi-step algebra problems: Practice sets
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Set 1

1. $2x+11=21$

2. $3x+17=38$

3. $4x-12=0$

4. $-5x-13=22$

5. $2+7x=16$

6. $11=-6x+23$

7. $12=2-3x$

8. $4-x=21$

9. $\frac{2}{3}x-7=6$

10. $\frac{3}{5}x-12=-6$

11. $13 = \frac{4}{5}x - 7$

12. $9 = 3 - \frac{3}{4}x$

13. $\frac{x}{4} + 17 = 3$

14. $\frac{x}{3} - 34 = -33$

Set 2

1. $2x + 3x = 35$

2. $3x + 9x = 96$

3. $3x - (-8x) = 44$

4. $-15 = -2x - (-7x)$

5. $6x + 2x - 3 = 5$

6. $12x - 4x - 2 = 62$

7. $2x + (3x + 4) = 19$

8. $-31 = -x - 12x - 31$

9. $\frac{1}{2}x + \frac{7}{2}x = 12$

10. $\frac{5}{3}x - \frac{10}{3}x = 20$

Set 3

1. $4x - 2 = 2x + 2$

2. $3x + 12 = 2x - 17$

3. $6x - 7 = 3x + 14$

4. $3 - 2x = 5x + 24$

5. $-2x - 33 = 12 - x$

6. $x + \frac{2}{3} = 2x - \frac{10}{3}$

7. $9x + 7x + 12 = 3x - 14$

8. $(16x + 2) + (2x - 7) = x + 46$

9. $3x - 31 = 3x + 7$

10. $4x - 7 + 2x = 3 + (2x - 10)$

Set 4

1. $3(x + 12) = 39$

2. $4(x - 7) = -12$

3. $3(2x - 1) = -21$

4. $-6(4 - 2x) = 24$

5. $-4(-4+3x) = 40$

6. $3(x+7) = 5x+27$

7. $\frac{1}{3}(x-7) = 12$

8. $\frac{2}{5}(2x-4) = 4$

9. $-(x-2) = 7$

10. $-(16+2x) = 0$

11. $16-2(x+7) = 8$

12. $11x-2(x-3) = 6$

Set 5

1. $\frac{x-7}{2} = 12$

2. $\frac{3x-2}{7} = 4$

$$3. \quad -\frac{x-3}{4} = 5$$

$$4. \quad -\frac{2x-7}{9} = 1$$

$$5. \quad \frac{15}{x} = 5$$

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

$$7. \quad \frac{15}{2x} = 10$$

$$8. \quad -\frac{24}{3x} = 2$$

$$9. \quad \frac{6}{x-2} = 3$$

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