

Solving Equations

A1

Copy problems onto your own paper and show work.

Solve for x. Give answers in simplest form—no decimals.

1. $2x + 3 = 7$

2. $6 - x = 4$

3. $8x + 3 = 5$

4. $x + 4 = 2x + 9$

5. $4 + 5x = x - 8$

6. $\frac{2}{3}x - 1 = x + 7$

7. $3(x - 2) = 5(4 + x)$

8. $3(x + 4) = 3(8 - 2x)$

9. $\frac{1}{3}x + 1 = \frac{-1}{3}x - 8$

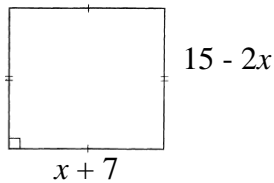
10. $\frac{1}{4}x + 2 = 3 - \frac{3}{4}x$

11. $5(2x - 2) = 4 - 2x$

Write an equation and show work to solve each problem.

12. The perimeter is 38 feet.

Find x.



13. Your summer job pays \$8 per hour. You get \$12 per hour for overtime (anything over 40 hours per week). How many hours must you work in one week to earn \$404?

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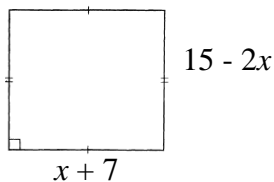
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