Name: _____

# Equations with Fractions and Decimals

Solve each equation.

**Learn:** Undo the operations in reverse order. You can multiply both sides by the denominator to clear a fraction.

**Example:** $2.5x + 1 = 31$ $x =$ 12

1. $\frac{x}{2} + 9 = 15$ $x =$ _____
2. $\frac{x}{4} - 5 = -7$ $x =$ _____
3. $2.5x + 0.3 = 30.3$ $x =$ _____
4. $\frac{x}{2} - 3 = -1$ $x =$ _____
5. $0.2x - 0.3 = 2.9$ $x =$ _____
6. $\frac{x}{5} + 7 = 9$ $x =$ _____
7. $0.2x + 0.7 = 2.7$ $x =$ _____
8. $2.5x + 0.5 = 20.5$ $x =$ _____
9. $\frac{x}{5} + 1 = 7$ $x =$ _____
10. $\frac{x}{2} - 3 = 3$ $x =$ _____
11. $\frac{x}{3} - 8 = 0$ $x =$ _____
12. $0.5x + 0.1 = 5.1$ $x =$ _____

Name: **ANSWER KEY**

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Solve each equation.

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**Example:** $2.5x + 1 = 31$ $x =$ 12

1. $\frac{x}{2} + 9 = 15$ $x =$ 12

2. $\frac{x}{4} - 5 = -7$ $x =$ −8

3. $2.5x + 0.3 = 30.3$ $x =$ 12

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

5. $0.2x - 0.3 = 2.9$ $x =$ 16

6. $\frac{x}{5} + 7 = 9$ $x =$ 10

7. $0.2x + 0.7 = 2.7$ $x =$ 10

8. $2.5x + 0.5 = 20.5$ $x =$ 8

9. $\frac{x}{5} + 1 = 7$ $x =$ 30

10. $\frac{x}{2} - 3 = 3$ $x =$ 12

11. $\frac{x}{3} - 8 = 0$ $x =$ 24

12. $0.5x + 0.1 = 5.1$ $x =$ 10