



## Solving Linear Equations with One Variable

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Grade 8 Linear Equations Worksheet

Date: \_\_\_\_\_

Name: \_\_\_\_\_

### LET'S MAKE LEARNING LINEAR EQUATIONS FUN

Solve the following Linear Equations with one variable

1.  $-3x = 7x - 30$

9.  $20x - 15x = 60$

2.  $9y = 70 + 4y$

10.  $-3x = 4x + 35$

3.  $14t = 78 + 8t$

11.  $7 - 5t = 37$

4.  $155d = 15d + 280$

12.  $15 + 3x = 9x - 45$

5.  $-8y = 48$

13.  $4x + 30 = 90$

6.  $7m = 21$

7.  $81 + 3d = 12d$

14.  $100 - 15y = 25$

8.  $k - 5 = 0$

15.  $6x = 72$



## Solving Linear Equations with one variable

### Answers

1.  $7x + 3x = 30$

$$10x = 30$$

$$x = 3$$

2.  $9y - 4y = 70$

$$5y = 70$$

$$y = 14$$

3.  $14t - 8t = 78$

$$6t = 78$$

$$t = 13$$

4.  $155d - 5d = 280$

$$140d = 280$$

$$d = 2$$

5.  $-8y = 48$

$$y = -6$$

6.  $7m = 21$

$$m = 3$$

7.  $12d - 3d = 81$

$$9d = 81$$

$$d = 9$$

8.  $k = 5$

9.  $20x - 15x = 60$

$$5x = 60$$

$$x = 12$$

10.  $4x + 3x = -35$

$$7x = -35$$

$$x = -5$$

11.  $5t = 37 - 7$

$$5t = 30$$

$$t = 6$$

12.  $9x - 3x = 15 + 45$

$$6x = 60$$

$$x = 10$$

13.  $4x = 90 - 30$

$$4x = 60$$

$$x = 15$$

14.  $15y = 100 - 25$

$$15y = 75$$

$$y = 5$$

15.  $6x = 72$

$$x = 12$$