



Solving Linear Equations with One Variable

Grade 8 Linear Equations Worksheet

Date: _____

Name: _____

LET'S MAKE LEARNING LINEAR EQUATIONS FUN

Solve the following Linear Equations with one variable

1. $8x + 15 = 87$

9. $14t - 36 = 3t + 41$

2. $6x = 3x - 12$

10. $-7y - 24 = 4$

3. $105 - 15x = 30$

11. $7 + 6m = 12m - 41$

4. $5y + 2 = 2y + 14$

12. $15 + 3x = 105$

5. $-5t + 7t = 20$

13. $4x + 18 = 6x - 2$

6. $15a + 30 = 5a + 70$

14. $100 - 5y = 35$

7. $2x + 50 = 12x - 20$

8. $10d = 90$

15. $6x = 2x + 24$



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Answers

1. $8x = 87 - 15$

$$8x = 72$$

$$x = 9$$

2. $6x - 3x = 12$

$$3x = 12$$

$$x = 4$$

3. $105 - 30 = 15x$

$$15x = 75$$

$$x = 5$$

4. $5y - 2y = 14 - 2$

$$3y = 12$$

$$y = 4$$

5. $-5t + 7t = 20$

$$2t = 20$$

$$t = 10$$

6. $15a - 5a = 70 - 30$

$$10a = 40$$

$$a = 4$$

7. $12x - 2x = 50 + 20$

$$10x = 70$$

$$x = 7$$

8. $d = 9$

9. $14t - 3t = 41 + 36$

$$11t = 77$$

$$t = 7$$

10. $-7y = 4 + 24$

$$-7y = 28$$

$$y = -4$$

11. $12m - 6m = 7 + 41$

$$6m = 48$$

$$m = 8$$

12. $3x = 105 - 15$

$$3x = 90$$

$$x = 30$$

13. $6x - 4x = 18 + 2$

$$2x = 20$$

$$x = 10$$

14. $5y = 100 - 35$

$$5y = 65$$

$$y = 13$$

15. $6x - 2x = 24$

$$4x = 24$$

$$x = 6$$