



Linear Equations

Math

Name _____ Class _____ Date _____

1 The sum of two times a number and fifteen is three times another number. Which linear equation represents this correctly? Circle the answer letter.

- a. $2x + 15 = 3y$
- b. $3x + 15 = 2y$
- c. $2x - 15 = 3y$

6 The sum of three times a number and nine is six times another number. Which linear equation represents this correctly? Circle the answer letter.

- a. $-3x + 6y = 9$
- b. $x + 2y = 3$
- c. $-3x + 9 = 6y$
- d. $3x + 9 = 6y$



2 A computer repair store charges an initial fee of \$60 and then a fee of \$35 for each hour it takes to fix the computer. Which linear equation represents this correctly?

7 A mechanic charges \$80 for labor per hour plus \$150 for parts. Write a linear equation representing this situation.



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5 What is the value of y for this linear equation when $x = 2$?

$$3x - 2y = x + 6y - 12$$

$$(3)(2) - 2y = 2 + 6y - 12$$

- 2
- 2.8
- 3
- 4

10 Which ordered pair is a solution set for the linear equation, $x - 1/2y = 7$?

- a. (5, 4)
- b. (5, -6)
- c. (3, -8)
- d. (3, -5)



Linear Equations - Answer Key

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$$2x - 5y = 57$$

$$2(-4) - 5y = 57$$

$$-5y = 65$$

$$y = -13$$

$$(4)(-2) + 7 = y$$

$$-8 + 7 = y$$

$$y = -1$$

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$$(3)(2) - 2y = 2 + 6y - 12$$

- 2**
- 2.8**
- 3**
- 4**

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