

Name: _____

Date: _____

Lesson 3.3 Understanding Linear Equations with Two Variables

Write a linear equation for the relationship between the following quantities.

1. kilometers, k , and meters, m
2. pounds, l , and ounces, u
3. days, d , and hours, h
4. megabytes, m , and bytes, b

Find the value of y when $x = -3$

5. $4 - 2x = 8 + y$

6. $y = \frac{5}{4}(x + 7)$

7. $3(y - 5) = 5x + 3$

8. $7(x - 3) = 6y$

Find the value of x when $y = 5$

9. $3(x - 3) = 2y$

10. $\frac{5x - 3}{2} = 2(y + 3)$

11. $3x + 2y = 0.2(2y + 1)$

12. $7y - 4x = 51$

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**Create a table of x and y values for each of the following equations.
Use integer values of x from 2 to 4.**

13. $y = \frac{1}{3}(9x - 18)$

14. $3x - 4 = \frac{1}{5}(y - 5)$

15. $-7y = 4x - 3$

16. $\frac{1}{4}(6x + 1) = \frac{1}{2}(y + 2)$

Complete the table of x and y values for each of the following equations.

17. $y = 4(2x + 1)$

x	1	2	3
y			

18. $x + \frac{y}{3} = 2$

x			3
y	9	3	