

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

### Review of Digits Units 1, 2, 3, 4 & 5 & 12

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$$1a. 2n + 2 = 12$$

$$1b. 2(r + 3) = 24$$

$$1c. 3(2r - 6) = 48$$

2a.

$x$	$y = 2x + 4$
0	
3	
7	

2b.

$x$	$y = -4x - 2$
0	
2	
6	

2c.

$x$	$y = \frac{1}{2}x + \frac{3}{4}$
0	
4	
6	

$$3a. \quad a^2 + 6^2 = 10^2$$

$$3b. \quad 8^2 + 8^2 = c^2$$

$$3c. \quad 1.6^2 + 1.2^2 = c^2$$

4a. Put the number into Scientific Notation

4,800,000,000

4b. Simplify and leave in Scientific Notation

$$(4.6 \times 10^6) + (8 \times 10^6)$$

4c. Simplify and leave in Scientific Notation

$$(3.2 \times 10^6)(4 \times 10^4)$$

5a. Simplify

$$x^3 \cdot x^{-5}$$

5b. Simplify

$$(3x^3y^6)(4x^{-6}y^2)$$

5c. Simplify

$$\frac{12x^2y^8}{4x^4y^3}$$

$$6a. \quad 2a - 8 = a + 7$$

$$6b. \quad 4(b - 3) = 2b - 12$$

$$6c. \quad 3.6y = 5.4 + 3.3y$$



**7a.** A machine can make 64 cans in 8 minutes. What is the unit rate?

**7b.** A machine can make 7 six packs of soda in 4 minutes. What is the unit rate?

**7c.** A machine can make 90 cans in 7.5 minutes. What is the unit rate?

$$8a. \quad \frac{x}{4} = \frac{18}{24}$$

$$8b. \quad \frac{6}{x} = \frac{42}{63}$$

$$8c. \quad \frac{x}{7} = \frac{9}{26}$$

9a. A car travels at a constant rate of 55 miles per hour. How far does it go after 6 hours?

9b. A car travels at a constant rate of 58.5 miles per hour. How far does it go after 3.5 hours?

9c. A car travels at a constant rate of 42.5 miles per hour. How far does it go after 1.8 hours?

**10a.** Eva buys a new outfit that costs \$150. If sales tax is 9%, how much does she pay?

**10b.** Emmy buys a pair of shoes that cost \$125. If sales tax is 8.5%, how much does she pay?

**10c.** Johnrey buys a new phone that costs \$350. It is on sale 20% off. If sales tax is 9%, how much does he pay?

11a. Make a table for the equation  
 $y = 2x - 3$

11b. Make a table for the equation  
 $y = \frac{2}{3}x + 2$

11c. Make a table for the equation  
 $y = -\frac{5}{7}x - 4$

12a. What is the slope and y-intercept of the equation  $y = 3x + 4$

12b. What is the slope and y-intercept of the equation  $y = \frac{3}{5}x - 2$

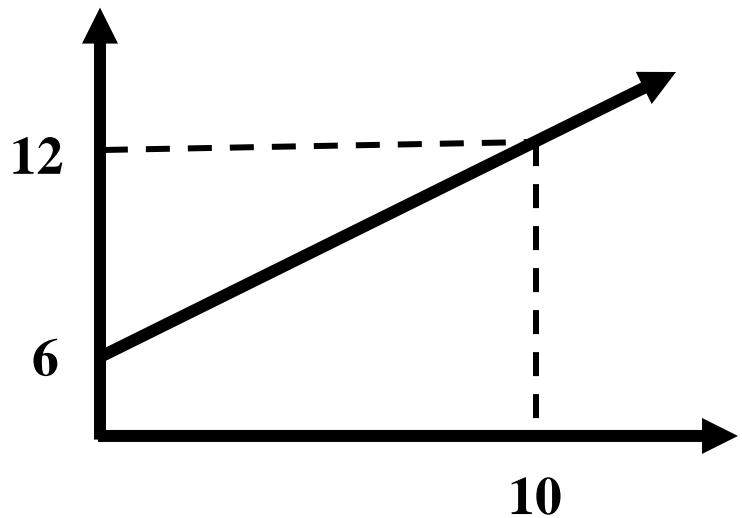
12c. What is the slope and y-intercept of the equation  $y = -\frac{x}{2} + \frac{1}{3}$

13a. Draw a graph with a positive slope.

13b. Draw a graph with an infinite slope.

13c. Draw a graph with slope of  $-\frac{3}{4}$

14a. Is the graph shown proportional?



14b. What is the slope and y-intercept of the line shown?

14c. What is the equation of the line shown?



**Instructions:**

I post each sheet of 3 problems around the room and give each student an answer sheet. Students work with a partner and rotate among the 10 sheets of problems, choosing one problem from each sheet to complete. I ask them to challenge themselves to complete the “hardest” problem on each sheet if they are able.