

Weekly Math # 15

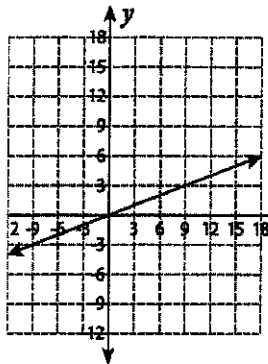
Name: _____

Date Due: _____ Block: _____

YOU MUST SHOW WORK for all of the problems.

You may use a calculator for problems with the .

1. Write the constant (k) for the graph below.



2. Divide. Write your answer in simplest form.

$$3\frac{1}{3} \div 2\frac{3}{4}$$


3. Alyssa will correctly label the numbers 48.4 , $48\frac{1}{2}$, 48.09 , and $48\frac{3}{5}$ on a number line. Which number will be located closest to 49?

4. Choose the best answer.

$$\frac{11}{18} \text{ — } \frac{33}{54}$$


- a. >
b. <
c. =

1. _____
2. _____
3. _____
4. _____

5.  Below is a table that shows the amount of money Sarah earns.

Hours	Earnings (\$)
5	\$47.50
7	\$66.50
9	\$85.50
11	\$104.50

How much money did Sara earn per hour?

6.  Ms. Porter had eight parties at her house last year. The number of guests at each party is shown below.

15, 19, 9, 27
21, 21, 10, 14

What is the median number of guests at these parties?

7. Jack pays \$120 a year for Netflix. His Netflix rate is a constant amount each **month**. Which equation represents the amount he pays per month if m = months and c = total amount paid for the year?

- a. $10m = c$
b. $10c = m$
c. $10 \div m = c$
d. $10 + m = c$

8. Which expression is equivalent to $4(3 - 2x) - 24 + 9x$

- a. $-12 + 7x$
b. $x + 24$
c. $17x - 12$
d. $x - 12$

5. _____
6. _____
7. _____
8. _____

9. Ed's game scores are 7, -2, 5, -3 and 8. What was his average score?

10. Sam bought school supplies with a \$10 bill. He received \$1.82 in change. How much did the supplies cost?

11. Change the mixed number into an improper fraction.

$$7\frac{5}{9}$$

12. A recipe calls for $\frac{1}{4}$ cup of oil for every $\frac{2}{3}$ cup of water. How much oil is needed for per cup of water?

9. _____
10. _____
11. _____
12. _____

<p>13. Erica saw a skateboard on sale for \$59.95. The original price of the skateboard was \$79.95. What is the percent discount on the skateboard? Round to the nearest percent.</p>	<p>14. Round 8.473 to the nearest hundredth.</p>	<p>15. The equation $y = 6.75x$ models the cost, in dollars, to purchase x pounds of steak at grocery store 1. This table shows the cost to buy different weights of steak at grocery store 2.</p> <table><caption>Cost of Steak at Grocery Store 2</caption><thead><tr><th>Weight (pounds)</th><th>Cost</th></tr></thead><tbody><tr><td>2</td><td>\$15.00</td></tr><tr><td>3</td><td>\$22.50</td></tr><tr><td>5</td><td>\$37.50</td></tr></tbody></table> <p>Which store has the better buy?</p>	Weight (pounds)	Cost	2	\$15.00	3	\$22.50	5	\$37.50	<p>16. In a survey, 44% of the people said they would vote Democrat while $\frac{2}{5}$ of the people said they would vote Republican. What percent of the voters would not vote Democrat or Republican?</p>	<p>13. _____</p> <p>14. _____</p> <p>15. _____</p> <p>16. _____</p>
Weight (pounds)	Cost											
2	\$15.00											
3	\$22.50											
5	\$37.50											
<p>17. Solve.</p> $\frac{x}{45} = \frac{15}{18}$	<p>18. Evaluate if $a = -2$, $b = -12$ and $c = 8$.</p> $\frac{ab}{c}$	<p>19. What is the value of the expression? Write your answer as an improper fraction.</p> $8.1\left(\frac{4}{9} + \frac{1}{3}\right)$	<p>20. The ages, in years, of six members of the Owen family are listed below.</p> <p>26, 41, 45, 53, 53, 94</p> <p>What is the mean age for these family members?</p> <p>a. 49 years b. 52 years c. 53 years d. 68 years</p>	<p>17. _____</p> <p>18. _____</p> <p>19. _____</p> <p>20. _____</p>								
<p>21. White whales can weigh up to 120,000 pounds. How many tons is this?</p> <p>Reminder: 1 ton = 2000 pounds</p>	<p>22. Daniel earned \$8.00 per hour at his job.</p> <ul style="list-style-type: none">• Daniel works 35 hours each week.• He received a 5% pay increase. <p>How much more money will Daniel earn each week after the pay increase?</p> <p>a. \$5 b. \$14 c. \$39 d. \$48</p>	<p>23. Simplify.</p> $-7(x - 5) - 2(x + 6)$	<p>24. Which expression would you use to solve the problem?</p> <p><i>Ten less than a number</i></p> <p>a. $10 - a$ b. $a + 10$ c. $43 - a$ d. $a - 10$</p>	<p>21. _____</p> <p>22. _____</p> <p>23. _____</p> <p>24. _____</p>								