# Course: VLA Math Algebra I\_1 Unit: Proportions, Percents, and Statistics

## Answer the following questions below:

| 1) Define a ratio.   |        |
|--|--------|
| A ratio is a comparison of two quantities and is oftern written as a fraction.                 | . *    |
|  | *      |
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| 2) Define a proportion.  |        |
| A proportion is any statement that two ratios are equal.                                       | ,<br>: |
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| 3) Explain how to solve proportions for unknown variables.                                     |        |
| Cross products are used to solve for a missing value in a proportion. Solving proportions is a | ۸.     |

Cross products are used to solve for a missing value in a proportion. Solving proportions is a matter of stating the ratios as fractions, setting the two fractions equal to each other, cross-multiplying, and solving the resulting equation.

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4) Determine if the following ratios are equal by using cross products.

$$\frac{56}{24} = \frac{49}{21}$$

a.) yes

○ b.) no

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5) Determine if the following ratios are equal by using cross products.

$$\frac{12}{16} = \frac{60}{80}$$

- a.) yes
- ி b.) no

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6) Determine if the following ratios are equal by using cross products.

$$\frac{12}{8} = \frac{48}{34}$$

- つ a.) yes
- b.) no

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**Not Graded** 

7) Determine if the following ratios are equal by using cross products.

$$\frac{12}{20} = \frac{27}{45}$$

- a.) yes
- ி b.) no

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8) Solve the proportion.

$$\frac{x}{4} = \frac{9}{12}$$

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9) Solve the proportion.

$$\frac{z}{10} = \frac{60}{240}$$

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10) Solve the proportion.

$$\frac{x+2}{3} = \frac{3x}{6}$$

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11) Solve the proportion.

$$\frac{2x - 5}{10} = \frac{3x}{20}$$

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12) Solve the proportion.

$$\frac{5z}{7} = \frac{z+3}{14}$$

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Refer to the similar pentagons below and use proportions to find the unknown lengths in the next three problems.

| 5 6 14 12 Jy  |
|---|
| 13) What is the value of "x"?   |
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| 14) What is the value of "y"?   |
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| 15) What is the value of "z"?   |
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| 16) Use a proportion to solve the following problem: The ratio of the gravity on Mars to the gravity on Earth is about 3/8. If Becky weighs 130 pounds on Earth, how much will she weigh on Mars? |
|   |
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| 17) Use a proportion to solve the following problem: A picture that is 4 inches long and 6 inches wide is enlarged so that it is now 7 inches long. What is the width of the enlarged picture?  |
|   |
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| 18) Use a proportion to solve the following problem: The ratio of boys to girls at a school is 7/5. If there are 504 students who attend the school, how many are boys? (Hint: Find the ratio of the number of boys to the total number of students.) |
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| Solve the next seven problems by using a proportion.  |
| 19) 27 is 60% of what number?   |
|   |
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| 20) What is 135% of 85?   |
|   |
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| 21) What percent of 80 is 10?  |
|--|
|  |
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| 22) Jim bought a TV on sale for \$127.50 after a 15% discount. What was the original price of the TV?                            |
|  |
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| 23) The Blue Hawks won 51 games and lost 24 games. What percent of the games did the team win?                                   |
|  |
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| 24) Lori paid \$26 for a pair of jeans that she bought on sale. This was 65% of the original price. What was the original price? |
|  |
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| 25) Amy bought two pairs of shoes that cost \$39 each. If the sales tax in her state is 7.5%, what was her total bill?           |
|  |
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| 26) Define the mean of a set of data and explain how to find it.   |
|  |
|  |
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| 27) Define the median of a set of data and explain how to find it. |
|  |
|  |
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| 28) Define the mode of a set of data.                              |
|  |
|  |
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| 29) Define the range of a set of data.                             |
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30) State the mean, median, mode, and range for the set of data. number of runs scored in 8 baseball games: 2, 4, 1, 0, 7, 3, 4, 3

mean = ?

median = ?

mode = ?

range = ?

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**Not Graded** 

31) State the mean, median, mode, and range for the set of data. amount of snow accumulation (in inches) per week for the past 10 weeks: 14, 8, 15, 5, 3, 2, 2, 8, 4, 2

median = ?mode = ?

range = ?

mean = ?

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**Not Graded** 

32) State the mean, median, mode, and range for the set of data. the average temperature per week for 11 weeks:

86, 84, 88, 91, 83, 72, 78, 82, 81, 77, 80

mean = 7

median = ?

mode = ?

range = ?

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**Not Graded** 

#### Review

33) Solve the system of equations by using substitution.

$$y = 2$$

$$2x - 4y = 1$$

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**Not Graded** 

34) Find the product.

$$\frac{y^2 - y - 2}{y + 2} \cdot \frac{y^2 + y - 2}{y - 2}$$

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**Not Graded** 

35) Solve the quadratic equation by factoring.

$$0 = x^2 - 7x + 12$$

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**Not Graded** 

36) Simplify the expression by using positive exponents. State the letter of the correct answer.

$$x^5 \cdot x^{-3} \cdot x^{-7}$$

A.  $x^{105}$ 

C.  $\frac{1}{x^{105}}$  D.  $\frac{1}{x^{15}}$  E.  $\frac{1}{x^5}$ 

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37) Find the sum.

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| 38) Solve for "a"                |  |                      |
| $\frac{a}{3} - \frac{a}{2} = 1$  |  |                      |
| 3 <u>4</u>                       |  |                      |
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| 39) Find the slop                | pe of the line containing the points (4, 5) and (-3, -9).          |                      |
|                                  |  |                      |
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| 40) Find the slop $12 = 2x - 3y$ | e of the line that is perpendicular to the line represented by the | equation shown below |
|                                  |  |                      |
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[ Print this page ]
Course: VLA Math Algebra I\_1
Unit: Functions and Relations

# Answer the following questions below:

1) What can the graph of a function show?

| It can allow you to determine if the relation is a function or not. If the vertical line does not touch more than one point at a time, the relation is a function. If the vertical line touches more than one point at a time the relation is not a function. |   |  |
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| 2) Define relation.   |   |  |
| A relation is a set of ordered pairs.   | v |  |
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| 3) Define function.   |   |  |
| A function is a special type of relation because each element of the domain is paired with exactly one element of the range.  | * |  |
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| 4) State the two important parts of a function and define each part.  |   |  |
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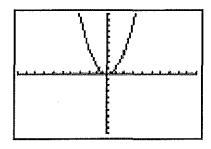
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|---|
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| 5) Determine if the relation is a function. State "yes" or "no". If "no", explain why. {(January, snow), (February, hearts), (December, snow), (August, sun)} |
| *   |
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| 6) Determine if the relation is a function. State "yes" or "no". If "no", explain why. {(golf, green), (football, brown), (skiing, white), (football, green)} |
| *   |
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| 7) Determine if the relation is a function. State "yes" or "no". If "no", explain why. $\{(2,3), (3,2), (6,-5), (-5,6)\}$                                     |
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| 8) When a relation is graphed in the coordinate plane, describe how to determine if the relation is a function.   |
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9) Is the graph a function?



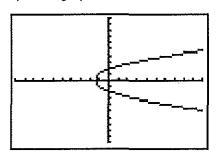
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10) Is the graph a function?



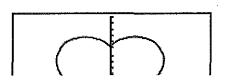
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11) Is the graph a function?

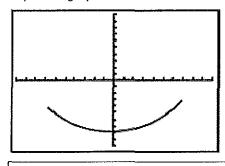


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12) Is the graph a function?



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**Not Graded** 

13) Evaluate.

$$f(x) = 2x^2 + 2x - 4$$
 for  $f(-1)$ 

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**Not Graded** 

14) Evaluate.

$$g(x) = 5x^2 - 3x$$
 for  $g(2)$ 

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Not Graded

15) Evaluate.

$$h(x) = x^3 - x^2 + 2x - 1$$
 for  $h(-3)$ 

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**Not Graded** 

16) Evaluate.

$$f(x) = \frac{1}{3}x^2 + \frac{2}{3}x$$
 for  $f(\frac{1}{3})$ 

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**Not Graded** 

For the next four problems, refer to the function shown below and find the ordered pairs for the domain described in each problem.

$$f(x) = x^2 + 1$$

17) List the set of ordered pairs that has a domain that consists of integers from -2 to 4.

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**Not Graded** 

18) List the set of ordered pairs that has a domain that consists of even integers from -6 to 2.

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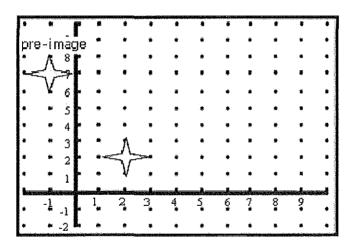
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| 19) List the set of ordered pairs that has a domain that consists of multip | oles of 3 from –3 to 15. |
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| 20) List the set of ordered pairs that has a domain that consists of odd in | ntegers from -11 to -1.  |
|   |                          |
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| 21) What is a transformation of a function?                                 |                          |
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| 22) What is a translation of the graph of a function?                       |                          |
|   | A.                       |
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| 23) What is a pre-image of the graph of a function?                         | •                        |
|   | Æ:                       |
|   | *                        |

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| Attachment(s): None [Save] Not Graded  24) What is an image of the graph of a function?  4000 character(s) left  Attachment(s): None |   |
| 24) What is an image of the graph of a function?   |   |
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Refer to the diagram below to solve the next two problems.



25) Choose a point on the pre-image and state the corresponding coordinates on the image.

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26) Describe the translation from the pre-image to the image.

|   | <b>.</b> |
|---|----------|
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| Refer to the diagram below to solve the next two problems.                                |          |
| 27) Choose a point on the pre-image and state the corresponding coordinates on the image. |          |
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| 28) Describe the translation from the pre-image to the image.                             |          |
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| 29) Vertical translations are moves made that are parallel to what axis?  |        |
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| 30) Horizontal translations are moves made that are parallel to what axis?  |        |
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| 31) How are horizontal translations useful?   |        |
| , — — — — — — — — — — — — — — — — — — —   |        |
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| 32) A function $f(x)$ and a parent function $g(x)$ are shown below. Describe the translation of the function from the parent function $g(x)$ .        | ı f(x) |
| f(x) =  x + 2  - 4, $g(x) =  x $  |        |
| A.  |        |
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| Not Graded  |        |
| 33) A function $g(x)$ and a parent function $h(x)$ are shown below. Describe the translation of the function $f(x)$ from the parent function $f(x)$ . | n g    |

| $g(x) = x^2 + 3$ , $h(x) = x$ | (x) = | $= x^2 + 3$ | h(x) = | $x^2$ |
|-------------------------------|-------|-------------|--------|-------|
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**Not Graded** 

34) A function h(x) and a parent function f(x) are shown below. Describe the translation of the function h(x) from the parent function f(x).

$$h(x) = (x-4)^2 + 5$$
,  $f(x) = x^2$ 

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35) A function g(x) and a parent function h(x) are shown below. Describe the translation of the function g(x) from the parent function h(x).

$$g(x) = |x| - 6$$
,  $h(x) = |x|$ 

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Review

36) Solve: 
$$5x - (7x + 4) = 3(x + 5) + 4(5 - 2x)$$

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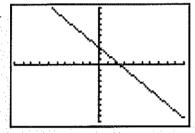
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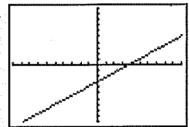
37) Graph the given equation. State the letter of the correct answer.

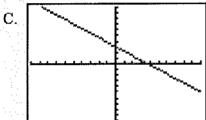
$$4x-5y=15$$

A.

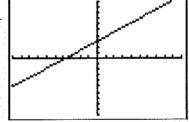


В.





D.



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**Not Graded** 

38) Graph the given inequality. State the letter of the correct answer.

$$2x + 3y < 6$$



| 1 |      |      |      |  |
|---|------|------|------|--|
| 1 |      |      |      |  |
| , |      |      |      |  |
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**Not Graded** 

39) Write the expression using positive exponents. State the letter of the correct answer.

$$\frac{-3a^{-3}}{2a^{2}b}$$

A. 
$$\frac{3}{2a^5b}$$

B. 
$$\frac{-3}{2ak}$$

C. 
$$\frac{3}{2ab}$$

B. 
$$\frac{-3}{2ab}$$
 C.  $\frac{3}{2ab}$  D.  $\frac{-3}{2a^5b}$ 

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40) Factor by grouping: mr + 3m + 2r + 6

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41) Rewrite the function in vertex form, and then state the vertex, the axis of symmetry, and the direction of opening.

$$y = x^2 + 5x + 4$$

|                        |                                 | A. |
|------------------------|---------------------------------|----|
|                        |                                 |    |
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|                        |                                 |    |
| 42) Solve for "x".     |                                 |    |
| $x^2 + 5x - 24 = 0$    |                                 |    |
|                        |                                 |    |
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|                        | All Finished! Review My Answers |    |

[ Print this page ]
Course: VLA Math Algebra I\_1
Unit: Probability

## Answer the following questions below:

| 1) When working with  | h probability, explain the u | se of a tree djagram.   |          |
|---|------------------------------|---|----------|
|   |                              |   | *        |
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| below. (a) How many   | different combinations ca    | lexican restaurant for lunch. Th<br>an Rachel and her friends make<br>d then list all possible choices. |          |
|   | Lunch Spi                    | ecial   |          |
| Choose any c  | ombination of 1 entree,      | 1 side dish, and 1 dessert.   |          |
| <u>Entrée</u>   | <u>Side Dish</u>             | <u>Dessert</u>  |          |
| Taco  | Rice                         | Fried Ice Cream   |          |
| Enchilada   | Com                          | Cinnamon Sticks   |          |
| Burrito   | Refried Beans                |   |          |
|   |                              |   |          |
| Name of the state |                              |   | <u>*</u> |
|   |                              |   |          |
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| You may attach a file   | , if you choose. SAttach     | File  |          |

3) A store that sells sporting goods stocks 10 styles of shoes. Each style comes in 8 sizes and 5 colors. How many shoes must the store stock in order to have one pair of each style, size, and color?

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| Use the Fundamental Counting Principle to determine the number of choices for each situation in the next three problems.               |
| 4) A business woman has 8 skirts and 4 sweaters. How many different outfits can she make?  |
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| 5) A menu contains 5 main dishes, 3 side dishes, 2 salads, and 4 desserts. How many different meals car<br>be made with the selection? |
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| 6) How many ways are there of drawing an ace from one deck of cards and a diamond from a second deck of cards?                         |
|  |

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For the next four problems, find the probability of each event happening when a blue die (numbered one through six) and a red die (numbered one through six) are rolled at the same time. Give the answer as a fraction and also as a percent.



| 7) Both numbers are odd.   |
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| 8) Both numbers are less than 5.                                     |
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| 9) The blue cube is a 4 AND the red cube is even.                    |
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| 10) The red cube is less than 3 AND the blue cube is greater than 2. |
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For the next two problems, find the probability of each event happening if one number is selected from the list {2, 4, 6, 8} and another number is selected from the list {6, 7, 8}.

11) The two numbers selected are odd.

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12) The two numbers selected are even.

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Review

13) Solve for "x".

$$2(4x+1) = 3(2x+4)$$

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14) Solve for "n".

$$\frac{n}{3} + \frac{4}{5} = 2n - \frac{5}{6}$$

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In the next two problems, "y varies directly as x". Find the constant of variation, and then write an

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| ^~ | unation t | for the | direct | variation. | Ctata | hoth | tha | constant. | ۸f | variation | and | tha .  | aguation |    |
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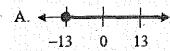
| 15) y = 4.2 when x = 0.84  |
|--|
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| 16) y = 1.7 when x = 0.017   |
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| [Save]   |
| 17) Identify the slope and the y-intercept for the equation shown below. $3x-6y=18$                        |
|  |
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| 18) Identify the slope and the y-intercept for the equation shown below. $\frac{1}{3}y = 2x + \frac{2}{3}$ |
|  |
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| 19) Find the x-intercept and the y-intercept for the equation shown below. $x + 5y = 1$                    |
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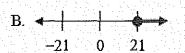
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| 20) Find the x-intercept and the y-intercept for the equation shown below. $x = 3y$                                 |
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| Attachment(s): None   |
| 21) Write an equation for the line that contains the points (4, 3) and (8, 4).                                      |
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| Attachment(s): None   |
| 22) Write an equation for the line that contains the point (4, 5) and has a slope of 2.                             |
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| Attachment(s): None   |
| 23) Identify the slope of a line that is parallel to the line represented by the equation shown below. $5y+2x=7$    |
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| Attachment(s): None   |
| 24) Identify the slope of a line that is perpendicular to the line represented by the equation shown below $x-7y=4$ |
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25) Solve the inequality. State the letter of the correct answer.







$$D. \stackrel{\blacklozenge}{\longleftarrow} \stackrel{\downarrow}{\longrightarrow} \\ -21 \quad 0 \quad 21$$

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26) Solve the inequality.

$$7 - \frac{m}{6} < 1$$

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27) Solve the system of equations by substitution.

$$2x + 3y = -8$$

$$x + y = 9$$

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28) Explain the solution to the previous problem.

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| 29) Solve the system of equations by elimination. $x + 2y = 3$ $5x - 3y = 2$   |
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| 30) Explain the solution to the previous problem.  |
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| Attachment(s): None  |
| 31) Set up a system of equations to solve the following problem: Rachel is 25 years younger than her dad. The sum of their ages is 75. How old are Rachel and her dad now? |
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| 32) Factor. $6x^2y - 14xy$   |
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| 33) Factor: 7(m + 4) – x(m + 4)                        |   |
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| 34) Factor: ab – 3b + a – 3                            |   |
|  | _ |
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| 35) Factor. $y^2 + 22y + 21$                           |   |
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| 36) Factor. $4n^2 + 2n - 6$                            |   |
|  |   |
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| Attachment(s): None                                    |   |
| 37) Solve by factoring. $\alpha^2 + 13\alpha + 22 = 0$ |   |
|  |   |
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| 38) Solve by factoring.                                |   |

$$n^2 + 3n = 18$$

Attachment(s): None

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For the next four problems, perform the indicated operation.

39) Find the difference.

$$\frac{4m}{n+3} - \frac{9m}{n+3}$$

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40) Find the sum.

$$\frac{-3}{w-2} + \frac{4}{5(w-2)}$$

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41) Find the product.

$$\frac{b^2}{b^2 + 5b + 4} \cdot \frac{b+1}{b^2 + 4b}$$

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42) Find the product.

$$\frac{z}{z+3} \cdot \frac{z^2-9}{z^2}$$

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43) Solve the rational equation for "d" and list any restricted values on the denominator.

$$\frac{2d}{3} = 2 + \frac{d+3}{6}$$

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44) Solve the rational equation for "m" and list any restricted values on the denominator.

$$\frac{1}{4} + \frac{2}{m} = \frac{11}{12}$$

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45) Solve the rational equation for "n" and list any restricted values on the denominator.

$$\frac{n-5}{n^2-1} + \frac{2n}{n-1} = 1$$

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[ All Finished! Review My Answers