|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 1 | Which of the following does not represent a way to find slope? | | | | |
|  | A |  | | | |
|  | B |  | | | |
|  | C |  | | | |
|  | D |  | | | |
|  |  |  | | | |
| 2 | What is 0.00502 in scientific notation? | | | | |
|  | A |  | | | |
|  | B |  | | | |
|  | C |  | | | |
|  | D |  | | | |
|  |  |  | | | |
| 3 | Which equation has the greatest rate of change? | | | | |
|  | A | y= 2x-9 | | | |
|  | B | y= 2x+100 | | | |
|  | C | y= -3x+1000 | | | |
|  | D | y= 9x+ 1 | | | |
|  |  |  | | | |
| 4 | What is the slope of a line passing through the points (-2,-6) and (3,5)? | | | | |
|  | A |  | | | |
|  | B |  | | | |
|  | C |  | | | |
|  | D |  | | | |
|  |  |  | | | |
| 5 | What is half of | | | | |
|  | A | 14 | | | |
|  | B | 24 | | | |
|  | C | 17 | | | |
|  | D | 27 | | | |
|  |  |  | | | |
| 6 | The table below gives the length of a spring when different masses are suspended from it.    Write an equation for the function. | | | | |
|  |
|  | A |  | | | |
|  | B |  | | | |
|  | C |  | | | |
|  | D |  | | | |
|  |  |  | | | |
| 7 | Two numbers have a sum of 72. One number is twice the other. Find the smaller number. | | | | |
|  |
|  | A | 24 | | | |
|  | B | 48 | | | |
|  | C | 72 | | | |
|  | D | 36 | | | |
|  |  |  | | | |
| 8 | Which of the following is equivalent to 9-493? | | | | |
|  | A |  | | | |
|  | B |  | | | |
|  | C |  | | | |
|  | D | 97 | | | |
|  |  |  | | | |
| 9 | Which one of the graphs represents a function? | | | | |
|  |
|  | A |  | C | |  |
|  | B |  | D | |  |
|  |  |  | | | |
| 10 | Which set of ordered pairs represents a linear function? | | | | |
|  | A | {(-6,-2), (-3,-1),(-6,1),(1,3)} | | | |
|  | B | {(-8,0),(-8,-3),(-8,-6),(-8,-9)} | | | |
|  | C | {(-1,1),(0,2),(-1,4),(2,-7)} | | | |
|  | D | {(-4,1),(-1,1),(2,3),(8,7)} | | | |
|  |  |  | | | |
| 11 | What is the slope of the lines passing through points A and B? | | | | |
|  |
|  | A |  | | | |
|  | B |  | | | |
|  | C |  | | | |
|  | D |  | | | |
|  |  |  | | | |
| 12 | Select a graph for the situation. You wait for the express bus for 30 minutes, get on and ride the bus non-stop for 3 miles, and then walk another mile to your home. | | | | |
|  |
|  | A |  | | C |  |
|  | B |  | | D |  |
|  |  |  | | | |
| 13 | The equation y=5 is | | | | |
|  | A | A vertical line. | | | |
|  | B | Parallel to the y-axis. | | | |
|  | C | Has zero slope. | | | |
|  | D | Has no slope. | | | |
|  |  |  | | | |
| 14 | What are the coordinates at which the graphs and intersect? | | | | |
|  | A |  | | | |
|  | B |  | | | |
|  | C |  | | | |
|  | D |  | | | |
|  |  |  | | | |
| 15 | What is the slope of the line 3x+2y=12? | | | | |
|  | A | 2 | | | |
|  | B |  | | | |
|  | C |  | | | |
|  | D | 3 | | | |
|  |  |  | | | |
| 16 | Solve for x: | | | | |
|  | A | 2.5 | | | |
|  | B | 3.5 | | | |
|  | C | 3.6 | | | |
|  | D | 4.5 | | | |
|  |  |  | | | |
| 17 | If a system of equations has no solution, what does it look like? | | | | |
|  | A | Perpendicular lines | | | |
|  | B | Parallel lines | | | |
|  | C | Same Line | | | |
|  | D | Skew Lines | | | |
|  |  |  | | | |
| 18 | What is the range of the following set of ordered pairs:  {(2,9), (3,8), (4,8), (4, 9), (-3, 9)} | | | | |
|  |
|  | A | {-3, 2, 3, 4} | | | |
|  | B | {8, 9} | | | |
|  | C | {-3, 2, 3, 4, 4} | | | |
|  | D | {8, 8, 9, 9, 9} | | | |
|  |  |  | | | |
| 19 | A system of two linear equations has been solved graphically. Use the graph to find any solutions. | | | | |
|  |
|  | A | infinite solutions | | | |
|  | B | no solutions | | | |
|  | C | (2, -3) | | | |
|  | D | (-3,2) | | | |
|  |  |  | | | |
| 20 | Which of the following statements is true about the relation shown on the graph below? | | | | |
|  |
|  | A | It is *not* a function because there are multiple y-values for a given x-value. | | | |
|  | B | It is a function because there exists one x-coordinate for each y-coordinate. | | | |
|  | C | It is a function because there exists one y-coordinate for each x-coordinate. | | | |
|  | D | It is *not* a function because there are multiple x-values for a given y-value. | | | |
|  |  |  | | | |

|  |  |
| --- | --- |
| 21 | Solve the system of equations graphically and check the solution. Show all work. Do not forget to label.  *y* + 3 = *x*  *y* – *x* = 0    **Solution: \_\_\_\_\_\_\_\_\_\_\_**  Check: Check: |
|  |
| 22 | Solve for x.  (6*x* – 12) = 2*x* – 3  x=\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |
| 23 | Using the table below, write an equation of the line in slope-intercept form.   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | *x* | 2 | 4 | 6 | 8 | 10 | 12 | | *y* | 15 | 29 | 43 | 57 | 71 | 85 |   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |