



- *20 questions
- *Calculators allowed
- *Show all work/steps- use separate paper
- *Graph paper required
- *Recommend time frame 45min -60min

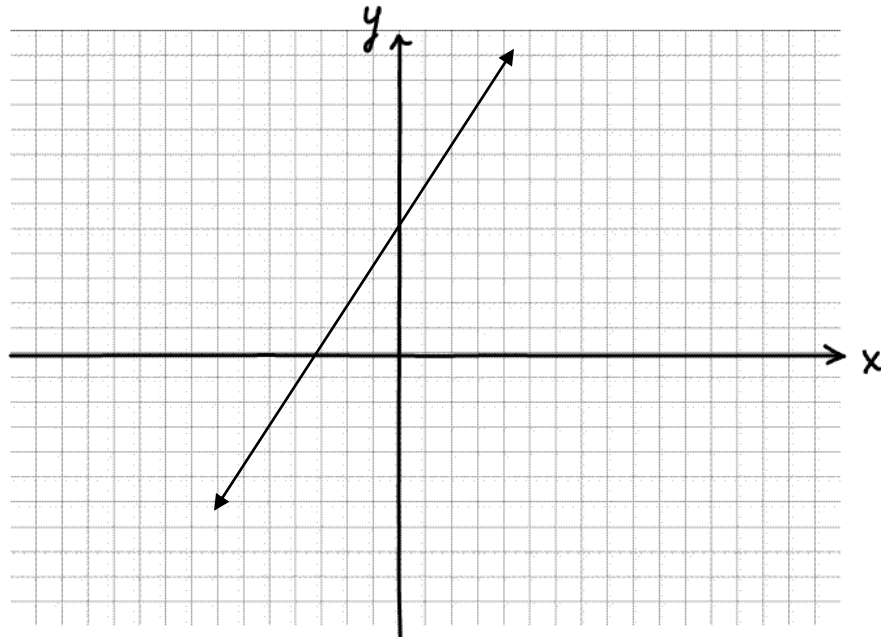
Concept of Graphing Linear Equations

1. True or False: Vertical lines have a slope of zero?
2. Define the slope of a line
3. The graph of a horizontal line will always be $y =$ some number?
4. What is an ordered pair?
5. What quadrant is the point $(-3, -5)$ located?

Finding Slope

6. Find the slope of a line that passes through the following points: $(2, 3)$, $(-1, 5)$
7. Find the slope of a line that passes through the following points: $(-4, 7)$, $(12, 3)$
8. Find the slope of a line that passes through the following points: $(6, -1)$, $(2, 9)$
9. Find the slope of a line that passes through the following points: $(\frac{1}{2}, 4)$, $(\frac{3}{5}, -7)$

10. Use the graph to determine the slope of a line



Graphing Vertical and Horizontal Lines

11. Graph: $x = -5$
12. Graph: $y = 4$

Graphing using a Table of Values

13. Complete the table and graph the line $y = 3x + 4$:

x	y
1	
2	
3	

Graphing using the Slope-Intercept Method($y = mx + b$)

14. Graph using the slope-intercept method: $y = 2x + 5$
15. Graph using the slope-intercept method: $y = -\frac{1}{3}x + 4$
16. Graph using the slope-intercept method: $4x + 3y = 12$

Graphing using the X and Y Intercept Method ($Ax + By = C$)

17. Find the x and y intercepts and graph the line: $2x + 5y = 10$
18. Find the x and y intercepts and graph the line: $-4x + 6y = -12$
19. Find the x and y intercepts and graph the line: $y = -3x + 7$
20. Word Problem: A company's annual profit is modeled by the linear equation:
 $P = 750C + 1000$ where C is number of computers sold.
 - a. What is the rate of change in the profit for each computer sold?
 - b. If the company made a total annual profit of \$1126000 how many computers were sold?