*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:* $\left(\frac{1}{2},\ 4\right),\ (\frac{3}{5}, -7)$

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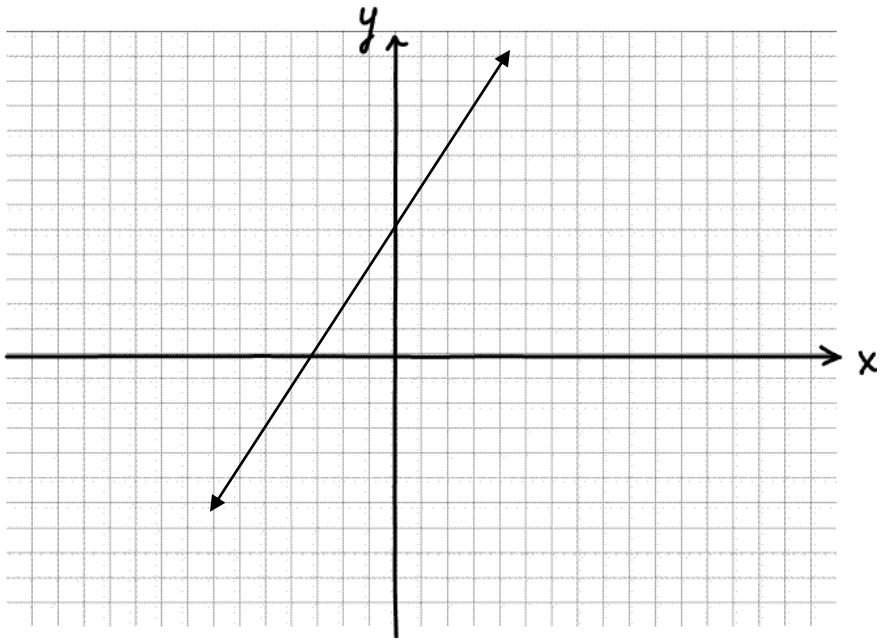
10. *Use the graph to determine the slope of a line*




Graphing Vertical and Horizontal Lines

11. *Graph:* $x = -5$

12. *Graph:* $y = 4$

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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:* $4x + 3y = 12$

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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?

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