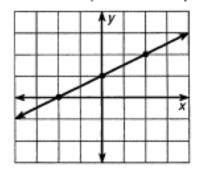
Name:	Date:	Period	

Functions and Linear Equations

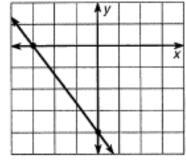
	Fill in each blank with one of the choices to the right. The circled letter to the left of each blank goes in the box containing the number of the answer.	
	The Coordinate Plane	
	The plane has two number lines that intersect at a point called the The horizontal number line is called the The vertical number line is called the The two axes divide the coordinate plane into four parts called The location of a point in the coordinate plane is given using an of numbers. The first number is the The second number is the Label the origin, axes, and quadrants in the figure at the top of the answer column.	15. origin 1. x-coordinate 23. intercept 9. quadrants 6. coordinate 17. y-coordinate 26. x-axis 22. ordered pair 7. graph 19. y-axis
Ñ	Equations in Two Variables For an equation with two variables, x and y , a pair of values (x,y) that make the equation true is a called a	24 second
	of the equation. Each solution is an The value of x is written: the value of y is written Each solution can be represented as a in the coordinate plane. The set of all points representing solutions is called the of the equation. An equation in two variables has an	24. second 11. slope 27. infinite 10. first 5. point 13. solution 2. points 18. number 3. ordered pair
O	number of solutions, so there is an infinite number of	16. graph
_	Linear Equations in Two Variables If the graph of an equation in two variables is a straight line,	
Ŏ	the equation is a equation. Every solution can be represented by a on the line. For example, the equation $y = 2x + 5$ is a linear equation because its graph is a One solution of this equation is	21. (3,11) 8. point 23. (5,12) 12. line 14. first
B	. $2x + 3y = 90$ is a linear equation because its is a line. In a linear equation, the highest power of either variable is the power.	4. intercept 20. linear 25. graph
7	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 2	22 23 24 25 26 27

Slopes and Intercepts

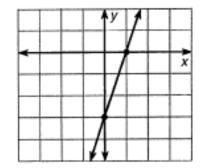
Find the slope and intercepts for each line.



- slope _____
- 2. x-intercept ____
- y-intercept ____

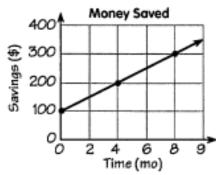


- 4. slope ____
- 5. x-intercept ____
- 6. y-intercept ____

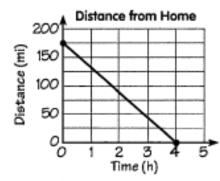


- slope _____
- 8. x-intercept ____
- 9. y-intercept ____

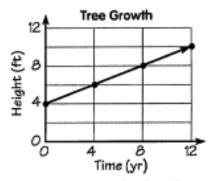
Answer the questions for each graph. Be sure to include a unit of measurement with each answer.



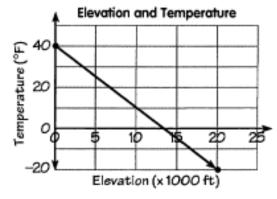
- 10. How much money had been saved at time 0?
- 11. What was the rate of saving (\$/mo)?



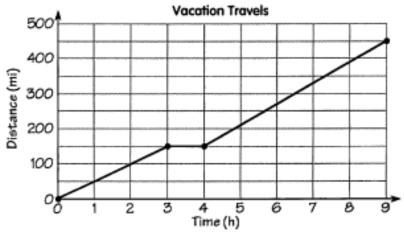
- 12. What was the distance from home at time 0?
- 13. What was the rate of speed (mph)?



- 14. What was the height of the tree at time 0?
- 15. What was the rate of growth (ft/yr)?



- 16. What was the temperature at sea level? At 20.000 ft?
- 17. At what rate did the temperature change (°F/1000 ft)?
- 18. At about what elevation was the temperature 0°F?
- 19. What would the temperature be outside a jet flying at 40,000 ft?



- 20. What was the rate of speed from 0 to 3 h?
- 21. What was the rate of speed from 3 to 4 h?
- 22. What was the rate of speed from 4 to 9 h?
- 23. What was the overall average rate of speed (total distance divided by total time)?