



NAME _____

16 Multiple choice questions

1. the point or value at which a business stops making a loss and starts making a profit
 - a. linear function
 - b. break-even point
 - c. gradient
 - d. rate of change
2. a function of the form $y = mx + b$, whose graph is a straight line
 - a. linear function
 - b. direct linear variation
 - c. stepwise linear function
 - d. gradient
3. the horizontal change in position between two points on a line
 - a. rise
 - b. gradient
 - c. run
 - d. step graph
4. the slope of a line; the rise over the run
 - a. run
 - b. y-intercept
 - c. rise
 - d. gradient
5. two or more equations that must be solved together so that the solution satisfies all equations
 - a. constant of variation
 - b. direct linear variation
 - c. simultaneous equations
 - d. linear function
6. a line graph used to convert one unit to another
 - a. proportional to
 - b. linear function
 - c. step graph
 - d. conversion graph

7. a relationship between variables in which a change in one variable results in a direct change in the other variable
 - a. gradient
 - b. run
 - c. conversion graph
 - d. proportional to
8. a function whose graph includes two or more horizontal line segments
 - a. stepwise linear function
 - b. linear function
 - c. constant of variation
 - d. direct linear variation
9. the number that relates two variables that are directly proportional or inversely proportional to one another; it is the k in a variation formula
 - a. linear function
 - b. constant of variation
 - c. conversion graph
 - d. direct linear variation
10. the relationship between two variables (say x and y) by an equation in the form $y = kx$, where k is the constant of variation
 - a. constant of variation
 - b. direct linear variation
 - c. linear function
 - d. stepwise linear function
11. the value at which a straight line graph cuts the vertical axis
 - a. step graph
 - b. gradient
 - c. rise
 - d. y-intercept
12. the variable in a function that depends on another variable for its value
 - a. independent variable
 - b. dependent variable
 - c. step graph
 - d. direct linear variation

13. the speed at which a variable changes over time
 - a. rate of change
 - b. break-even point
 - c. step graph
 - d. gradient

14. the vertical change in position between two points on a line
 - a. run
 - b. rise
 - c. step graph
 - d. gradient

15. a variable in a function whose values do not depend on any other variable
 - a. direct linear variation
 - b. constant of variation
 - c. independent variable
 - d. dependent variable

16. a graph which includes two or more horizontal line segments
 - a. rise
 - b. step graph
 - c. run
 - d. y-intercept