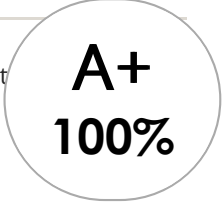


## 16 Multiple choice questions



**A+**  
**100%**

1. the point or value at which a business stops making a loss and starts making a profit
  - a. linear function
  - b. **CORRECT: 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. **CORRECT: 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. **CORRECT: run**
  - d. step graph
  
4. the slope of a line; the rise over the run
  - a. run
  - b. y-intercept
  - c. rise
  - d. **CORRECT: 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. **CORRECT: simultaneous equations**
  - d. linear function

6. a line graph used to convert one unit to another
- proportional to
  - linear function
  - step graph
  - CORRECT: conversion graph**
7. a relationship between variables in which a change in one variable results in a direct change in the other variable
- gradient
  - run
  - conversion graph
  - CORRECT: proportional to**
8. a function whose graph includes two or more horizontal line segments
- CORRECT: stepwise linear function**
  - linear function
  - constant of variation
  - 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
- linear function
  - CORRECT: constant of variation**
  - conversion graph
  - 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
- constant of variation
  - CORRECT: direct linear variation**
  - linear function
  - stepwise linear function

11. the value at which a straight line graph cuts the vertical axis
  - a. step graph
  - b. gradient
  - c. rise
  - d. **CORRECT: y-intercept**
  
12. the variable in a function that depends on another variable for its value
  - a. independent variable
  - b. **CORRECT: dependent variable**
  - c. step graph
  - d. direct linear variation
  
13. the speed at which a variable changes over time
  - a. **CORRECT: 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. **CORRECT: 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. **CORRECT: independent variable**
  - d. dependent variable
  
16. a graph which includes two or more horizontal line segments
  - a. rise
  - b. **CORRECT: step graph**
  - c. run
  - d. y-intercept

