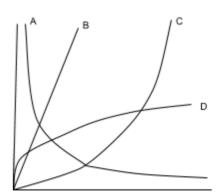
Quick Test - Proportionality

- 1. Two variables are connected by the relationship y α x. When x = 0.2, y = 1.8.
- a. Write a formula for y in terms of x
- b. Work out y when x = 0.16
- c. Work out x when y = 29
- 2. The cost of petrol for a journey is directly proportional to the distance travelled. Joe travels 130 miles and spends £15 on petrol. Calculate
- a. The cost of petrol for a journey of 190 miles
- b. The length of a journey costing £12.75
- 3. n is inversely proportional to m. When n = 4, m = 6
- a. Write a formula for n in terms of m
- b. Calculate m when n = 12
- c. Calculate n when m = 0.4
- 4. The shutter speed of a camera, S, is inversely proportional to the square of the aperture setting, f.

When f = 11, S = 90

Find the value of s when f = 18

5. L is inversely proportional to H. When H = 7, L = 42. Find the value of H when $L = \frac{1}{2}$



6. Write the letter of the graph that represents each of these relationships

 $y \alpha x$ $y \alpha x^2$ $y \alpha \frac{1}{x}$ $y \alpha \sqrt{x}$