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. A is inversely proportional to B. When A = 4, B = 6

a. Write a formula for A in terms of B

b. Calculate B when A = 12

c. Calculate A when B = 0.4