Inverse Proportion

Maths

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Inverse Proportion

Y is inversely proportional to X
 Given that Y = 4 when X = 3, find a
 formula for Y in terms of X

- 2. m is inversely proportional to n When m = 10, n = 3
- a) Find the value of m when n = 5

b) What happens to the value of n if you double the value of m?

3. y is inversely proportional to x²
Given that y = 4 when x = 3,
a) Find a formula for y in terms of x.
b) Find y when x = 2
c) Find x when y = 1

4. h is inversely proportional to the square root of t.When t = 4, h = 17.5Find a formula for h in terms of t.

Answers

Inverse Proportion

1. Y is inversely proportional to X Given that Y = 4 when X = 3, find a formula for Y in terms of X $Y = \frac{12}{5}$

2. m is inversely proportional to n When m = 10, n = 3 m = $\frac{30}{n}$ a) Find the value of m when n = 5

m = 6

b) What happens to the value of n if you double the value of m?

n would halve. n = 1.5

3. y is inversely proportional to x²
Given that y = 4 when x = 3,
a) Find a formula for y in terms of x. y = 36/x²
b) Find y when x = 2 y = 9
c) Find x when y = 1 x = 6

4. h is inversely proportional to the square root of t.
When t = 4, h = 17.5
Find a formula for h in terms of t.