

Direct and Inverse Proportion

Increasingly
Difficult
Exercises

a) If 2 pens cost 54p, how much will 5 pens cost?

b) If 3 pencils cost 54p, how many can I buy with £1?

c) $a \propto b$
When $a = 4$, $b = 20$. Find b when $a = 6$.

d) $m \propto n^2$
When $n = 4$, $m = 12$. Find m when $n = 10$.

e) $g \propto h$
When $h = 3$, $g = 72$. Find h when $g = 96$.

f) a is directly proportional to b^2 . When $b = 6$, $a = 108$. Find b when $a = 75$.

g) x is proportional to the inverse of y . When $x = 6$, $y = 8$. Find x when $y = 12$.

h) c is inversely proportional to d^2 . When $d = 5$, $c = 3$. Find c when $d = 10$.

i) p is inversely proportional to the square root of q . When $q = 3$, $p = 2$. Find p when $q = 12$.

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When $n = 4$, $m = 12$. Find m when $n = 10$.

e) $g \propto h$
When $h = 3$, $g = 144$. Find h when $g = 30$.

f) a is directly proportional to b^2 . When $b = 6$, $a = 108$. Find b when $a = 27$.

g) x is proportional to the inverse of y . When $x = 6$, $y = 8$. Find x when $y = 12$.

h) c is inversely proportional to d^2 . When $d = 5$, $c = 3$. Find c when $d = 10$.

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