

Quiz: Direct Variation

1. If x varies directly with y and x is 24 when y is 10, find the constant of variation.
2. The distance of a train from a station, varies directly with the time, t . If $d = 200$ miles when $t = 4$ hours, find d when $t = 6$.
3. " a varies directly with b ". If $a = 6$ when $b = 24$, find a when $b = 7$.
4. Write equation which represents: m varies directly with n , if $m = 56$ when $n = 4$?
5. Acceleration (a) of a moving object is directly proportional to its velocity (v). If v is 4 then a is 10, find constant of variation.

In the following chart, does one variable vary directly with the other?

6

m	1	3	5
n	5	7	9

7

p	24	30	36
q	4	5	6

8

a	2	4	6
b	6	15	30

9

a	3	6	9
b	2	4	6

10

x	2	5	7
y	10	25	35

11

p	18	21	72
q	6	7	9

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%