

Quiz: Direct Variation

1 If k varies directly as e and k is 7 when e is 6, find the constant of variation.

2 "a varies directly as b". If $a = 5$ when $b = 4$, find b when $a = 3$.

3 There are about 2 calories in 20 grams of meat. Mike ate 10 grams of this meat. About how many calories were in the meat he ate.

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

M	1	2	3	4	5
N	4	8	12	16	20

5 The resistance (U) of a copper wire varies directly as its length (V). Write this relation as a formula using k as the constant of variation.

6 A salesman's commission varies directly as his sales. If the commission is \$700 for \$300 in sales, find the commission for \$500 in sales.

7 If l varies directly as r and l is 18 when r is 20, find the constant of variation.

8 "a varies directly as b". If $a = 7$ when $b = 5$, find b when $a = 25$.

9 There are about 40 calories in 100 grams of chicken. Willie ate 50 grams of this chicken. About how many calories were in the chicken Willie ate.

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

M	3	9	5	4	7
N	6	8	10	12	14

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%