

Name : _____

Constant of Variation

L2S3

- 1) The variable u varies directly with v and inversely with w . The value of u is 30 when $v = 12, w = 6$. Find the constant of variation (k).

- 2) The variable a varies directly with b . The value of a is 48 when $b = \frac{4}{5}$. Find the constant of variation (k).

- 3) The variable h varies directly with f and inversely with g . The value of h is 512 when $f = -4$ and $g = -2$. Find the constant of variation (k).

- 4) The variable p varies directly with q and inversely with r . The value of p is 1.7 when $q = 3.8$ and $r = 2.5$. Find the constant of variation (k).

- 5) The variable x varies directly with y and inversely with z^2 . The value of x is 5 when $y = 72, z = 3$. Find the constant of variation (k).

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Constant of Variation

L2S3

- 1) The variable u varies directly with v and inversely with w . The value of u is 30 when $v = 12$, $w = 6$. Find the constant of variation (k).

$k = 15$

- 2) The variable a varies directly with b . The value of a is 48 when $b = \frac{4}{5}$. Find the constant of variation (k).

$k = 60$

- 3) The variable h varies directly with f and inversely with g . The value of h is 512 when $f = -4$ and $g = -2$. Find the constant of variation (k).

$k = 1024$

- 4) The variable p varies directly with q and inversely with r . The value of p is 1.7 when $q = 3.8$ and $r = 2.5$. Find the constant of variation (k).

$k = 8.6$

- 5) The variable x varies directly with y and inversely with z^2 . The value of x is 5 when $y = 72$, $z = 3$. Find the constant of variation (k).

$k = \frac{5}{8}$

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