

Name : _____

Constant of Variation

L2S2

- 1) The variable p varies jointly with q , r and s . The value of p is 0.81 when $q = 1.5$, $r = -3$ and $s = -0.2$. Find the constant of variation (k).

- 2) The variable t varies jointly with r and s . The value of t is 18 when $r = 3$ and $s = 8$. Find the constant of variation (k).

- 3) The variable y varies directly with x and inversely with z . The value of y is 9 when $x = 3$ and $z = 6$. Find the constant of variation (k).

- 4) The variable g varies directly with f and inversely with h . The value of g is 12 when $f = 3$ and $h = 4$. Find the constant of variation (k).

- 5) The variable b varies directly with c and inversely with d . The value of b is 3 when $c = 20$ and $d = 4$. Find the constant of variation (k).

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Constant of Variation

- 1) The variable p varies jointly with q , r and s . The value of p is 0.81 when $q = 1.5$, $r = -3$ and $s = -0.2$. Find the constant of variation (k).

$$\underline{k = 0.9}$$

- 2) The variable t varies jointly with r and s . The value of t is 18 when $r = 3$ and $s = 8$. Find the constant of variation (k).

$$\underline{k = 0.75}$$

- 3) The variable y varies directly with x and inversely with z . The value of y is 9 when $x = 3$ and $z = 6$. Find the constant of variation (k).

$$\underline{k = 8}$$

- 4) The variable g varies directly with f and inversely with h . The value of g is 12 when $f = 3$ and $h = 4$. Find the constant of variation (k).

$$\underline{k = 30}$$

- 5) The variable b varies directly with c and inversely with d . The value of b is 3 when $c = 20$ and $d = 4$. Find the constant of variation (k).

$$\underline{k = \frac{3}{5}}$$

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