

Name : _____

Constant of Variation

L2S4

- 1) The variable b varies jointly with c and d . The value of b is 216 when $c = 9$, $d = 2$. Find the constant of variation (k).

- 2) The variable q varies directly with r and inversely with s . The value of q is 60 when $r = 2.5$ and $s = 0.7$. Find the constant of variation (k).

- 3) The variable y varies directly with x and z . The value of y is 56 when $x = 2$, $z = 4$ and $w = 1$. Find the constant of variation (k).

- 4) The variable t varies directly with n . The value of t is 12 when $n = 3$. Find the value of square root of n when $t = 20$.

- 5) The variable m varies inversely with n . The value of m is $-\frac{1}{8}$ when $n = -6$. Find the constant of variation (k).

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Constant of Variation

- 1) The variable b varies jointly with c and d . The value of b is 216 when $c = 9$, $d = 2$. Find the constant of variation (k).

$$\underline{\quad k = 12 \quad}$$

- 2) The variable q varies directly with r and inversely with s . The value of q is 60 when $r = 2.5$ and $s = 0.7$. Find the constant of variation (k).

$$\underline{\quad k = 10 \quad}$$

- 3) The variable y varies directly with x and z . The value of y is 56 when $x = 2$, $z = 4$ and $w = 1$. Find the constant of variation (k).

$$\underline{\quad k = 7 \quad}$$

- 4) The variable t varies directly with the square root of n . The value of t is 12 when $n = 16$. Find the constant of variation (k).

$$\underline{\quad k = 72 \quad}$$

- 5) The variable m varies inversely with n . The value of m is $-\frac{1}{8}$ when $n = -6$. Find the constant of variation (k).

$$\underline{\quad k = \frac{3}{4} \quad}$$

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