

Name : _____

Constant of Variation

L2S1

- 1) The variable z varies jointly with x and y . The value of z is 80 when $x = 2$ and $y = \frac{5}{8}$. Find the constant of variation (k).

- 2) The variable r varies directly with q and inversely with square root of p . The value of r is 72 when $q = 2$ and $\sqrt{p} = 7$. Find the constant of variation (k).

- 3) The variable a varies directly with b and inversely with c . The value of a is 12 when $b = 1.6$. Find the constant of variation (k).

- 4) The variable w varies directly with u and inversely with v . The value of w is 3 when $u = -55$ and $v = 10$. Find the constant of variation (k).

- 5) The variable r varies jointly with s and t . The value of r is 60 when $s = 5$ and $t = 6$. Find the constant of variation (k).

PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

www.mathworksheets4kids.com

Constant of Variation

- 1) The variable z varies jointly with x and y. The value of z is 80 when $x = 2$ and $y = \frac{5}{8}$. Find the constant of variation (k).

$k = 64$

- 2) The variable r varies directly with q and inversely with square root of p. The value of r is 72 when $q = 2$ and $\sqrt{p} = 7$. Find the constant of variation (k).

$k = 1$

- 3) The variable a varies jointly with b and c. The value of a is 12 when $b = 1.6$. Find the constant of variation (k).

$k =$

- 4) The variable w varies jointly with u and v. The value of w is 3 when $u = -55$ and $v = 2$. Find the constant of variation (k).

$k = \frac{1}{55}$

- 5) The variable r varies jointly with s and t. The value of r is 60 when $s = 5$ and $t = 6$. Find the constant of variation (k).

$k = 2$

PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

www.mathworksheets4kids.com