

Name : \_\_\_\_\_

## Constant of Variation - Equation

L2S5

1)  $7fg = 4h$ . Find the constant of variation if,

a)  $f$  varies directly with  $h$  and inversely with  $g$ . \_\_\_\_\_

b)  $h$  varies jointly with  $f$  and  $g$ . \_\_\_\_\_

2)  $6z = \frac{x}{y}$ . Find the constant of variation if,

a)  $x$  varies jointly with \_\_\_\_\_

b)  $z$  varies directly with \_\_\_\_\_

3)  $\frac{n}{5} = 4wm^3$ . Find the constant of variation if,

a)  $n$  varies jointly with \_\_\_\_\_

b)  $w$  varies inversely with \_\_\_\_\_

4)  $2qr - 8u = 0$ . Find the constant of variation if,

a)  $r$  varies directly with \_\_\_\_\_

b)  $u$  varies jointly with  $q$  and  $r$ . \_\_\_\_\_

5)  $9n = \frac{2}{m}$ . Find the constant of variation if,

a)  $m$  varies inversely with  $n$ . \_\_\_\_\_

b)  $n$  varies inversely with  $m$ . \_\_\_\_\_

# 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](http://www.mathworksheets4kids.com)

## Constant of Variation - Equation

1)  $7fg = 4h$ . Find the constant of variation if,

a)  $f$  varies directly with  $h$  and inversely with  $g$ .

$$k = \frac{4}{7}$$


---

b)  $h$  varies jointly with  $f$  and  $g$ .

$$k = \frac{7}{4}$$


---

2)  $6z = \frac{x}{y}$ . Find the constant of variation if,

a)  $x$  varies jointly with  $z$  and  $y$ .

$$k = 6$$


---

b)  $z$  varies directly with  $x$  and inversely with  $y$ .

$$k = \frac{1}{6}$$


---

3)  $\frac{n}{5} = 4wm^3$ . Find the constant of variation if,

a)  $n$  varies jointly with  $w$  and  $m$ .

$$k = 20$$


---

b)  $w$  varies inversely with  $m$  and  $n$ .

$$k = \frac{1}{20}$$


---

4)  $2qr - 8u = 0$ . Find the constant of variation if,

a)  $r$  varies directly with  $q$  and  $u$ .

$$k = 4$$


---

b)  $u$  varies jointly with  $q$  and  $r$ .

$$k = \frac{1}{4}$$


---

5)  $9n = \frac{2}{m}$ . Find the constant of variation if,

a)  $m$  varies inversely with  $n$ .

$$k = \frac{2}{9}$$


---

b)  $n$  varies inversely with  $m$ .

$$k = \frac{2}{9}$$


---

# 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](http://www.mathworksheets4kids.com)