

Name : _____

Constant of Variation - Equation

L1S1

1) $\frac{v}{w} = 9$. Find the constant of variation if,

a) v varies directly with w .

b) w varies directly with v .

2) $pq = 3$. Find the constant of variation if,

a) q varies inversely with p .

b) p varies inversely with q .

3) $2z - \frac{x}{11} = 0$. Find the constant of variation if,

a) z varies directly with x .

b) x varies directly with z .

4) $n = \frac{6}{m}$. Find the constant of variation if,

a) m varies inversely with n .

b) n varies inversely with m .

5) $3u = 5t$. Find the constant of variation if,

a) u varies directly with t .

b) t varies directly with u .

Name : _____

Answer key

Constant of Variation - Equation

L1S1

1) $\frac{v}{w} = 9$. Find the constant of variation if,

a) v varies directly with w.

$$k = 9$$

b) w varies directly with v.

$$k = \frac{1}{9}$$

2) $pq = 3$. Find the constant of variation if,

a) q varies inversely with p.

$$k = 3$$

b) p varies inversely with q.

$$k = 3$$

3) $2z - \frac{x}{11} = 0$. Find the constant of variation if,

a) z varies directly with x.

$$k = \frac{1}{22}$$

b) x varies directly with z.

$$k = 22$$

4) $n = \frac{6}{m}$. Find the constant of variation if,

a) m varies inversely with n.

$$k = 6$$

b) n varies inversely with m.

$$k = 6$$

5) $3u = 5t$. Find the constant of variation if,

a) u varies directly with t.

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

b) t varies directly with u.

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