

Name : _____

Missing Values

L2S5

1) The variable y varies jointly with x and z . The value of y is 312 when $x = 8$ and $z = 13$.

a) Write an equation that relates x , y and z . _____

b) Find the value of y when $x = 5$ and $z = 7$. _____

2) The variable m varies directly with n and inversely with h . The value of m is 1.8 when $h = 4.5$ and $n = 7.5$.

a) Write an equation that relates m , n and h . _____

b) Find the value of m when $h = 3$ and $n = 10$. _____

3) The variable u varies directly with v and inversely with w . The value of u is 30 when $v = 15$ and $w = 30$.

a) Write an equation that relates u , v and w . _____

b) Find the value of u when $v = 20$ and $w = 40$. _____

4) The variable p varies directly with q and inversely with r . The value of p is 135 when $q = 3$ and $r = 4$.

a) Write an equation that relates p , q and r . _____

b) Find the value of p when $q = 6$ and $r = 8$. _____

5) The variable d varies jointly with c and f . The value of d is $\frac{1}{3}$ when $c = \frac{5}{6}$ and $f = \frac{8}{9}$.

a) Write an equation that relates c , d and f . _____

b) Find the value of d when $c = \frac{1}{6}$ and $f = \frac{5}{7}$. _____

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