

Name : _____

Missing Values

L2S1

1) The variable u varies jointly with v and w . The value of u is -6.5 when $v = 0.2$ and $w = -2$.

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

b) Find the value of u when $v = 3$ and $w = 7$. _____

2) The variable p varies directly with q and inversely with r . The value of p is 24 when $r = 5$ and $q = 20$.

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

b) Find the value of p when $q = 10$ and $r = 4$. _____

3) The variable h varies directly with m and inversely with n . The value of h is 128 when $m = \frac{2}{3}$ and $n = \frac{1}{8}$.

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

b) Find the value of h when $m = 5$ and $n = 2$. _____

4) The variable g varies directly with x and inversely with y . The value of g is 10 when $x = 8$ and $y = 2$.

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

b) Find the value of g when $x = 4$ and $y = 5$. _____

5) The variable y varies directly with x . The value of y is 32 when $x = 8$.

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

b) Find the value of x when $y = 40$. _____

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