

Name : _____

Missing Values

L2S3

1) The variable t varies jointly with r and s . The value of t is 750 when $r = 5$ and $s = 10$.

a) Write an equation that relates t , r and s . _____

b) Find the value of t when $r = 4$ and $s = 8$. _____

2) The variable u varies directly with v . The value of u is 27 when $v = 3$.

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

b) Find the value of u when $v = 6$ and $w = 4$. _____

3) The variable y varies jointly with x and z . The value of y is 768 when $x = 4$ and $z = 1$.

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

b) Find the value of y when $x = 8$ and $z = 2$. _____

4) The variable p varies directly with q and inversely with r . The value of p is 12 when $q = 1.2$ and $r = 0.8$.

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

b) Find the value of p when $q = 2.4$ and $r = 1.6$. _____

5) The variable m varies directly with n and inversely with h . The value of m is 32 when $n = 52$ and $h = 13$.

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

b) Find the value of m when $n = 36$ and $h = 12$. _____

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