

Name : _____

L1S4

Missing Values

1) The variable c varies inversely with t . The value of c is -6 when $t = -7$.

a) Write an equation that relates c and t . _____

b) Find the value of c when $t = 2$. _____

2) The variable y varies inversely with q . The value of y is 2.3 when $q = 7.2$.

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

b) Find the value of y when $q = 4.5$. _____

3) The variable r varies inversely with s . The value of r is 2 when $s = 3$.

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

b) Find the value of r when $s = 6$. _____

4) The variable u varies inversely with v . The value of u is 3 when $v = 4$.

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

b) Find the value of u when $v = 8$. _____

5) The variable n varies inversely with d . The value of n is $\frac{4}{9}$ when $d = \frac{3}{8}$.

a) Write an equation that relates d and n . _____

b) Find the value of n when $d = \frac{1}{18}$. _____

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Missing Values

L1S4

1) The variable c varies inversely with t . The value of c is -6 when $t = -7$.a) Write an equation that relates c and t .

$$c = \frac{42}{t}$$

b) Find the value of c when $t = 2$.

$$c = 21$$

2) The variable y varies inversely with q . The value of y is 2.3 when $q = 7.2$.a) Write an equation that relates y and q .

$$y = \frac{16.56}{q}$$

b) Find the value of y when $q = 4$.

$$y = 4$$

3) The variable r varies inversely with z . The value of r is 11 when $z = 2$.a) Write an equation that relates r and z .

$$r = 11z$$

b) Find the value of z when $r = 9$.

$$z = 9$$

4) The variable u varies inversely with v . The value of u is 4 when $v = 3$.a) Write an equation that relates u and v .

$$u = 4v$$

b) Find the value of v when $u = 5$.

$$v = 5$$

5) The variable n varies inversely with d . The value of n is $\frac{4}{9}$ when $d = \frac{3}{8}$.a) Write an equation that relates d and n .

$$n = \frac{1}{6d}$$

b) Find the value of n when $d = \frac{1}{18}$.

$$n = 3$$

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