

Name : _____

Missing Values

L1S2

1) The variable r varies inversely with s . The value of r is $-\frac{6}{7}$ when $s = -\frac{7}{8}$.

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

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

2) The variable g varies directly with h . The value of g is 10 when $h = 2$.

a) Write an equation that relates g and h . _____

b) Find the value of h when $g = 15$. _____

3) The variable x varies directly with y . The value of x is 8 when $y = 4$.

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

b) Find the value of y when $x = 12$. _____

4) The variable z varies directly with w . The value of z is 14 when $w = 7$.

a) Write an equation that relates z and w . _____

b) Find the value of w when $z = 28$. _____

5) The variable t varies inversely with c . The value of t is 5 when $c = 6$.

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

b) Find the value of c when $t = 10$. _____

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Missing Values

1) The variable r varies inversely with s . The value of r is $-\frac{6}{7}$ when $s = -\frac{7}{8}$.

a) Write an equation that relates s and r .

$$r = \frac{3}{4s}$$

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

$$s = \frac{1}{8}$$

2) The variable g varies directly with h . The value of g is 10 when $h = 2$.

a) Write an equation that relates g and h .

$$g = 5h$$

b) Find the value of g when $h = 6$.

$$g = 30$$

3) The variable x varies inversely with y . The value of x is 16 when $y = 2$.

a) Write an equation that relates x and y .

$$x = \frac{16}{y}$$

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

$$y = 4$$

4) The variable z varies directly with u . The value of z is 9 when $u = 3$.

a) Write an equation that relates z and u .

$$z = 3u$$

b) Find the value of z when $u = 4$.

$$z = 12$$

5) The variable t varies inversely with c . The value of t is 5 when $c = 6$.

a) Write an equation that relates c and t .

$$t = \frac{30}{c}$$

b) Find the value of c when $t = 10$.

$$c = 3$$

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