

Name : _____

Missing Values

L1S3

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

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

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

2) The variable v varies directly with w . The value of v is -6 when $w = -9$.

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

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

3) The variable t varies directly with s . The value of t is 12 when $s = 4$.

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

b) Find the value of s when $t = 24$. _____

4) The variable m varies directly with n . The value of m is 15 when $n = 4$.

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

b) Find the value of n when $m = 30$. _____

5) The variable c varies directly with d . The value of c is 28.8 when $d = 3.2$.

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

b) Find the value of d when $c = 1.8$. _____

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Missing Values

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

a) Write an equation that relates z and y .

$$\underline{z = 2y}$$

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

$$\underline{y = 6}$$

2) The variable v varies directly with w . The value of v is -6 when $w = -9$.

a) Write an equation that relates v and w .

$$\underline{v = \frac{2}{3}w}$$

b) Find the value of w when $v = -10$.

$$\underline{w = 15}$$

3) The variable t varies directly with u . The value of t is 20 when $u = 4$.

a) Write an equation that relates t and u .

$$\underline{t = \frac{20}{u}}$$

b) Find the value of u when $t = 28$.

$$\underline{t = 28}$$

4) The variable m varies directly with n . The value of m is 32 when $n = 4$.

a) Write an equation that relates m and n .

$$\underline{m = \frac{32}{n}}$$

b) Find the value of n when $m = 16$.

$$\underline{m = 16}$$

5) The variable c varies directly with d . The value of c is 28.8 when $d = 3.2$.

a) Write an equation that relates d and c .

$$\underline{c = 9d}$$

b) Find the value of d when $c = 1.8$.

$$\underline{d = 0.2}$$

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