

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  $v = 12$ . \_\_\_\_\_

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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