

Name : \_\_\_\_\_

## Missing Values

L1S1

1) The variable  $y$  varies directly with  $x$ . The value of  $y$  is 24 when  $x = 8$ .

a) Write an equation that relates  $x$  and  $y$ . \_\_\_\_\_

b) Find the value of  $y$  when  $x = 5$ . \_\_\_\_\_

2) The variable  $m$  varies inversely with  $n$ . The value of  $m$  is 2 when  $n = \frac{1}{4}$ .

a) Write an equation that relates  $m$  and  $n$ . \_\_\_\_\_

b) Find the value of  $m$  when  $n = 2$ . \_\_\_\_\_

3) The variable  $p$  varies directly with  $q$ . The value of  $p$  is 12 when  $q = -3.2$ .

a) Write an equation that relates  $p$  and  $q$ . \_\_\_\_\_

b) Find the value of  $p$  when  $q = 4$ . \_\_\_\_\_

4) The variable  $g$  varies inversely with  $h$ . The value of  $g$  is 6 when  $h = 2$ .

a) Write an equation that relates  $g$  and  $h$ . \_\_\_\_\_

b) Find the value of  $g$  when  $h = 3$ . \_\_\_\_\_

5) The variable  $t$  varies directly with  $s$ . The value of  $t$  is 15 when  $s = 3$ .

a) Write an equation that relates  $s$  and  $t$ . \_\_\_\_\_

b) Find the value of  $s$  when  $t = 25$ . \_\_\_\_\_

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Name : \_\_\_\_\_

## Answer key

# Missing Values

L1S1

1) The variable  $y$  varies directly with  $x$ . The value of  $y$  is 24 when  $x = 8$ .

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

$$y = 3x$$

b) Find the value of  $y$  when  $x = 5$ .

$$y = 15$$

2) The variable  $m$  varies inversely with  $n$ . The value of  $m$  is 2 when  $n = \frac{1}{4}$ .

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

$$m = \frac{1}{2n}$$

b) Find the value of  $n$  when  $m = 4$ .

$$n = \frac{1}{4}$$

3) The variable  $p$  varies directly with  $q$ . The value of  $p$  is 2.4 when  $q = -3.2$ .

a) Write an equation that relates  $p$  and  $q$ .

$$p = 0.75q$$

b) Find the value of  $q$  when  $p = 4.8$ .

$$q = 6.4$$

4) The variable  $g$  varies directly with  $f$ . The value of  $g$  is 18 when  $f = 6$ .

a) Write an equation that relates  $g$  and  $f$ .

$$g = \frac{18}{f}$$

b) Find the value of  $f$  when  $g = 27$ .

$$f = 4$$

5) The variable  $t$  varies directly with  $s$ . The value of  $t$  is 15 when  $s = 3$ .

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

$$t = 5s$$

b) Find the value of  $s$  when  $t = 25$ .

$$s = 5$$

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