

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

## Missing Values

L1S5

1) The variable  $n$  varies inversely with  $m$ . The value of  $n$  is 1.5 when  $m = 5$ .

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

b) Find the value of  $n$  when  $m = 3.75$ . \_\_\_\_\_

2) The variable  $s$  varies directly with  $w$ . The value of  $s$  is 24 when  $w = 4$ .

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

b) Find the value of  $s$  when  $w = 12$ . \_\_\_\_\_

3) The variable  $x$  varies inversely with  $y$ . The value of  $x$  is  $\frac{1}{16}$  when  $y = 4$ .

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

b) Find the value of  $x$  when  $y = 16$ . \_\_\_\_\_

4) The variable  $t$  varies directly with  $u$ . The value of  $t$  is 6 when  $u = 3$ .

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

b) Find the value of  $t$  when  $u = 9$ . \_\_\_\_\_

5) The variable  $p$  varies inversely with  $z$ . The value of  $p$  is 9 when  $z = 7$ .

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

b) Find the value of  $p$  when  $z = 21$ . \_\_\_\_\_

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**Missing Values**

L1S5

1) The variable  $n$  varies inversely with  $m$ . The value of  $n$  is 1.5 when  $m = 5$ .a) Write an equation that relates  $m$  and  $n$ .

$$n = \frac{7.5}{m}$$

b) Find the value of  $n$  when  $m = 3.75$ .

$$n = 2$$

2) The variable  $s$  varies directly with  $w$ . The value of  $s$  is 24 when  $w = 4$ .a) Write an equation that relates  $s$  and  $w$ .

$$s = 6w$$

b) Find the value of  $w$  when  $s = 18$ .

$$w = 3$$

3) The variable  $x$  varies inversely with  $y$ . The value of  $x$  is 8 when  $y = 16$ .**PREVIEW**  
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$$= \frac{1}{16}$$

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

$$x = 8y$$

b) Find the value of  $y$  when  $x = 32$ .

$$x = 40$$

4) The variable  $t$  varies directly with  $u$ . The value of  $t$  is 30 when  $u = 5$ .a) Write an equation that relates  $t$  and  $u$ .

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

b) Find the value of  $u$  when  $t = 6$ .

$$u = 10$$

5) The variable  $p$  varies inversely with  $z$ . The value of  $p$  is 9 when  $z = 7$ .a) Write an equation that relates  $z$  and  $p$ .

$$p = \frac{63}{z}$$

b) Find the value of  $p$  when  $z = 21$ .

$$p = 3$$