

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

## Missing Values

L2S2

1) The variable  $d$  varies jointly with  $c$  and  $f$ . The value of  $d$  is  $-30$  when  $c = 5$  and  $f = -2$ .

a) Write an equation that relates  $d$ ,  $c$  and  $f$ . \_\_\_\_\_

b) Find the value of  $c$  when  $d = 27$  and  $f = 9$ . \_\_\_\_\_

2) The variable  $y$  varies inversely with  $z$ . The value of  $y$  is  $6$  when  $z = 2$ .

a) Write an equation that relates  $y$ ,  $z$  and \_\_\_\_\_

b) Find the value of  $z$  when  $y = 12$  and \_\_\_\_\_

3) The variable  $s$  varies directly with  $t$  and inversely with  $u$ . The value of  $s$  is  $10$  when  $t = 15$  and  $u = 4$ .

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

b) Find the value of  $t$  when  $s = 20$  and  $u = 8$ . \_\_\_\_\_

4) The variable  $g$  varies directly with  $h$  and inversely with  $f$ . The value of  $g$  is  $\frac{3}{8}$  when  $h = \frac{1}{4}$  and  $f = 4$ .

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

b) Find the value of  $h$  when  $g = \frac{1}{2}$  and  $f = 16$ . \_\_\_\_\_

5) The variable  $p$  varies directly with  $q$  and inversely with  $r$ . The value of  $p$  is  $2.5$  when  $r = 1.5$  and  $q = 7.5$ .

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

b) Find the value of  $p$  when  $r = 4$  and  $q = 3.2$ . \_\_\_\_\_

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