

Name : _____

Write the Equation

L2S1

- 1) The variable d varies jointly with f and h . The value of $d = 90$ when $f = 2$ and $h = 9$. Write an equation that relates d , f and h .

- 2) The variable p varies directly with q and inversely with r . The value of $p = -9.6$ when $q = 0.3$ and $r = 0.2$. Write an equation that relates p , q and r .

- 3) The variable y varies directly with x and inversely with z . The value of $y = 6$ when $x = 2$ and $z = 3$. Write an equation that relates y and z .

- 4) The variable u varies directly with v and inversely with w . The value of $u = 12$ when $v = 1$. Write an equation that relates u , v and w .

- 5) The variable a varies jointly with b , c and d . The value of $a = 14$ when $b = \frac{3}{5}$, $c = \frac{5}{7}$ and $d = \frac{7}{9}$. Write an equation that relates a , b , c and d .

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Write the Equation

- 1) The variable d varies jointly with f and h . The value of $d = 90$ when $f = 2$ and $h = 9$. Write an equation that relates d , f and h .

$$\underline{d = 5fh}$$

- 2) The variable p varies directly with q and inversely with r . The value of $p = -9.6$ when $q = 0.3$ and $r = 0.2$. Write an equation that relates p , q and r .

$$\underline{p = \frac{6}{qr}}$$

- 3) The variable y varies directly with x and inversely with z . The value of $y = 6$ when $x = 2$ and $z = 3$. Write an equation that relates y and z .

$$\underline{y = \frac{1}{z}}$$

- 4) The variable u varies directly with v . The value of $u = 12$ when $v = 1$. Write an equation that relates u and v .

$$\underline{u = 12v}$$

- 5) The variable a varies jointly with b , c and d . The value of $a = 14$ when $b = \frac{3}{5}$, $c = \frac{5}{7}$ and $d = \frac{7}{9}$. Write an equation that relates a , b , c and d .

$$\underline{a = 42bcd}$$

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