

Name : _____

Write the Equation

L2S5

- 1) The variable p varies jointly with r and square of s . The value of $p = 36$ when $r = 0.5$ and $s = 0.8$. Write an equation that relates p , r and s .

- 2) The variable b varies inversely with x . The value of $b = 33$ when $x = 3$. Write an equation that relates b and x .

- 3) The variable m varies directly with n and t . The value of $m = 9$ when $n = \frac{5}{7}$, $q = 2$ and $t = 3$. Write an equation that relates m , n , q and t .

- 4) The variable u varies directly with v and inversely with w . The value of $u = 495$ when $v = 5$, $w = -3$. Write an equation that relates u , v and w .

- 5) The variable c varies directly with cube of d and inversely with f . The value of $c = 27$ when $d = 3$ and $f = 6$. Write an equation that relates c , d and f .

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Write the Equation

- 1) The variable p varies jointly with r and square of s . The value of $p = 36$ when $r = 0.5$ and $s = 0.8$. Write an equation that relates p , r and s .

$$\underline{p = 112.5rs^2}$$

- 2) The variable b varies inversely with x . The value of $b = 33$ when $x = 3$. Write an equation that relates b and x .

$$\underline{b = \frac{99}{x}}$$

- 3) The variable m varies directly with n and q and inversely with t . The value of $m = 9$ when $n = \frac{5}{7}$, $q = 2$ and $t = 3$. Write an equation that relates m , n , q and t .

$$\underline{m = \frac{2}{3} \cdot \frac{5}{7} \cdot nq}$$

- 4) The variable u varies directly with v and w and inversely with x . The value of $u = 495$ when $v = 5$, $w = 3$ and $x = 3$. Write an equation that relates u , v , w and x .

$$\underline{u = 11vw^2}$$

- 5) The variable c varies directly with cube of d and inversely with f . The value of $c = 27$ when $d = 3$ and $f = 6$. Write an equation that relates c , d and f .

$$\underline{c = \frac{6d^3}{f}}$$

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