

Name : _____

Write the Equation

L2S2

- 1) The variable q varies directly with r and inversely with s . The value of q is 5 when $r = 12$ and $s = 2$. Write an equation that relates q , r and s .

- 2) The variable y varies jointly with t and x . The value of $y = \frac{1}{7}$ when $t = \frac{1}{4}$ and $x = \frac{6}{7}$. Write an equation that relates y , t and x .

- 3) The variable p varies inversely with t . The value of $p = -3$ when $t = 4$. Write an equation that relates p , q and t .

- 4) The variable m varies directly with n . The value of $m = 14.7$ when $n = 3$. Write an equation that relates m and n .

- 5) The variable m varies directly with n . The value of $m = -21$ when $n = -3$. Write an equation that relates m and n .

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Write the Equation

- 1) The variable q varies directly with r and inversely with s . The value of q is 5 when $r = 12$ and $s = 2$. Write an equation that relates q , r and s .

$$q = \frac{5r}{6s}$$

- 2) The variable y varies jointly with t and x . The value of $y = \frac{1}{7}$ when $t = \frac{1}{4}$ and $x = \frac{6}{7}$. Write an equation that relates y , t and x .

$$y = \frac{2}{3}tx$$

- 3) The variable p varies directly with q and inversely with t . The value of $p = -3$ when $q = 6$ and $t = 2$. Write an equation that relates p , q and t .

$$p = \frac{3}{2}qt$$

- 4) The variable m varies directly with f , g and h . The value of $m = 14.7$ when $f = 0.7$, $g = 3$ and $h = 7$. Write an equation that relates m , f , g and h .

$$m = 6fg^2h^3$$

- 5) The variable m varies directly with n . The value of $m = -21$ when $n = -3$. Write an equation that relates m and n .

$$m = 7n$$

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