

Name : _____

Write the Equation

L2S4

- 1) The variable a varies directly with b and inversely with c . The value of $a = 21$ when $b = 7$ and $c = 3$. Write an equation that relates a , b and c .

- 2) The variable z varies jointly with x and square of y . The value of z is 350 when $x = 2$ and $y = 5$. Write an equation that relates z , x and y .

- 3) The variable u varies directly with v and inversely with the square of w . The value of $u = -6.2$ when $v = 4$ and $w = 2$. Write an equation that relates u , v and w .

- 4) The variable p varies jointly with q and r . The value of $p = 12$ when $q = 3$ and $r = 2$. Write an equation that relates p , q and r .

- 5) The variable m varies jointly with f and h . The value of $m = 15$ when $f = 3$ and $h = 1$. Write an equation that relates f , h and m .

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Write the Equation

- 1) The variable a varies directly with b and inversely with c . The value of $a = 21$ when $b = 7$ and $c = 3$. Write an equation that relates a , b and c .

$$a = \frac{9b}{c}$$

- 2) The variable z varies jointly with x and square of y . The value of z is 350 when $x = 2$ and $y = 5$. Write an equation that relates z , x and y .

$$z = 7x^2y^2$$

- 3) The variable u varies directly with v and inversely with the square of w . The value of $u = -6.2$ when $v = 4$ and $w = 2$. Write an equation that relates u , v and w .

$$u = \frac{0.15v}{w^2}$$

- 4) The variable p varies directly with q and inversely with the square of r . The value of $p = 12$ when $q = 3$ and $r = 2$. Write an equation that relates p , q and r .

$$p = 3q$$

- 5) The variable m varies jointly with f and h . The value of $m = 15$ when $f = 3$ and $h = 1$. Write an equation that relates f , h and m .

$$m = 5fh$$

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