

Name : _____

Write the Equation

L1S1

- 1) The variable x varies directly with y . The value of $x = 200$ when $y = 4$. Write an equation that relates x and y .

- 2) The variable p varies inversely with q . The value of $p = \frac{2}{3}$ when $q = \frac{3}{4}$. Write an equation that relates p and q .

- 3) The variable c varies directly with d . The value of $c = 144$ when $d = 6$. Write an equation that relates c and d .

- 4) The variable m varies inversely with n . The value of $m = -28$ when $n = -5$. Write an equation that relates m and n .

- 5) The variable a varies directly with b . The value of $a = 6.4$ when $b = 2$. Write an equation that relates a and b .

Name : _____

Answer key

Write the Equation

L1S1

- 1) The variable x varies directly with y . The value of $x = 200$ when $y = 4$. Write an equation that relates x and y .

$$\underline{x = 50y}$$

- 2) The variable p varies inversely with q . The value of $p = \frac{2}{3}$ when $q = \frac{3}{4}$. Write an equation that relates p and q .

$$\underline{p = \frac{1}{2q}}$$

- 3) The variable c varies directly with d . The value of $c = 144$ when $d = 6$. Write an equation that relates c and d .

$$\underline{c = 24d}$$

- 4) The variable m varies inversely with n . The value of $m = -28$ when $n = -5$. Write an equation that relates m and n .

$$\underline{m = \frac{140}{n}}$$

- 5) The variable a varies directly with b . The value of $a = 6.4$ when $b = 2$. Write an equation that relates a and b .

$$\underline{a = 3.2b}$$