

Name : _____

Write the Equation

L1S5

- 1) The variable y varies inversely with z . The value of $y = 17$ when $z = 9$. Write an equation that relates y and z .

- 2) The variable a varies directly with b . The value of $a = 72$ when $b = 36$. Write an equation that relates a and b .

- 3) The variable p varies inversely with q . The value of $p = 15$ when $q = 0.6$. Write an equation that relates p and q .

- 4) The variable u varies directly with v . The value of $u = 12$ when $v = -\frac{3}{8}$. Write an equation that relates u and v .

- 5) The variable g varies directly with h . The value of $g = 112$ when $h = 8$. Write an equation that relates g and h .

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Write the Equation

- 1) The variable y varies inversely with z . The value of $y = 17$ when $z = 9$. Write an equation that relates y and z .

$$y = \frac{153}{z}$$

- 2) The variable a varies directly with b . The value of $a = 72$ when $b = 36$. Write an equation that relates a and b .

$$a = 2b$$

- 3) The variable p varies inversely with q . The value of $p = 1$ when $q = 0.6$. Write an equation that relates p and q .

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

- 4) The variable u varies directly with v . The value of $u = \frac{2}{3}$ when $v = -\frac{3}{8}$. Write an equation that relates u and v .

$$u = \frac{2}{3}v$$

- 5) The variable g varies directly with h . The value of $g = 112$ when $h = 8$. Write an equation that relates g and h .

$$g = 14h$$

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