

Name : \_\_\_\_\_

## Write the Equation

L1S3

- 1) The variable  $s$  varies directly with  $t$ . The value of  $s = \frac{1}{9}$  when  $t = \frac{5}{6}$ . Write an equation that relates  $s$  and  $t$ .

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- 2) The variable  $g$  varies directly with  $h$ . The value of  $g = 80$  when  $h = 8$ . Write an equation that relates  $g$  and  $h$ .

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- 3) The variable  $u$  varies directly with  $v$ . The value of  $u = 12$  when  $v = 9$ . Write an equation that relates  $u$  and  $v$ .

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- 4) The variable  $a$  varies directly with  $b$ . The value of  $a = 24$  when  $b = -15$ . Write an equation that relates  $a$  and  $b$ .

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- 5) The variable  $w$  varies directly with  $x$ . The value of  $w = 128$  when  $x = 64$ . Write an equation that relates  $w$  and  $x$ .

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**Write the Equation**

- 1) The variable  $s$  varies directly with  $t$ . The value of  $s = \frac{1}{9}$  when  $t = \frac{5}{6}$ . Write an equation that relates  $s$  and  $t$ .

$$s = \frac{2}{15}t$$


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- 2) The variable  $g$  varies directly with  $h$ . The value of  $g = 80$  when  $h = 8$ . Write an equation that relates  $g$  and  $h$ .

$$g = 10h$$


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- 3) The variable  $u$  varies directly with  $v$ . The value of  $u = 12$  when  $v = 9$ . Write an equation that relates  $u$  and  $v$ .

$$u = \frac{4}{3}v$$


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- 4) The variable  $a$  varies directly with  $b$ . The value of  $a = 12$  when  $b = -15$ . Write an equation that relates  $a$  and  $b$ .

$$a = -\frac{4}{5}b$$


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- 5) The variable  $w$  varies directly with  $x$ . The value of  $w = 128$  when  $x = 64$ . Write an equation that relates  $w$  and  $x$ .

$$w = 2x$$


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