

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

## Constant of Variation

L2S2

- 1) The variable  $p$  varies jointly with  $q$ ,  $r$  and  $s$ . The value of  $p$  is 0.81 when  $q = 1.5$ ,  $r = -3$  and  $s = -0.2$ . Find the constant of variation ( $k$ ).

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- 2) The variable  $t$  varies jointly with  $r$  and  $s$ . The value of  $t$  is 18 when  $r = 3$  and  $s = 8$ . Find the constant of variation ( $k$ ).

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- 3) The variable  $y$  varies directly with  $x$  and inversely with  $z$ . The value of  $y$  is 9 when  $x = 3$  and  $z = 6$ . Find the constant of variation ( $k$ ).

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- 4) The variable  $g$  varies directly with  $f$  and inversely with  $h$ . The value of  $g$  is 12 when  $f = 3$  and  $h = 4$ . Find the constant of variation ( $k$ ).

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- 5) The variable  $b$  varies directly with  $c$  and inversely with  $d$ . The value of  $b$  is 3 when  $c = 20$  and  $d = 4$ . Find the constant of variation ( $k$ ).

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