

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

## Constant of Variation

L2S4

- 1) The variable  $b$  varies jointly with  $c$  and  $d$ . The value of  $b$  is 216 when  $c = 9$ ,  $d = 2$ . Find the constant of variation ( $k$ ).

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- 2) The variable  $q$  varies directly with  $r$  and inversely with  $s$ . The value of  $q$  is 60 when  $r = 2.5$  and  $s = 0.7$ . 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 56 when  $x = 2$ ,  $z = 4$  and  $w = 1$ . Find the constant of variation ( $k$ ).

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- 4) The variable  $t$  varies directly with  $s$  and inversely with  $r$ . The value of  $t$  is 12 when  $s = 3$  and  $r = 2$ . Find the constant of variation ( $k$ ).

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- 5) The variable  $m$  varies inversely with  $n$ . The value of  $m$  is  $-\frac{1}{8}$  when  $n = -6$ . Find the constant of variation ( $k$ ).

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