

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

## Constant of Variation

L1S1

- 1) The variable  $y$  varies directly with  $z$ . The value of  $y$  is 45 when  $z = 3$ . Find the constant of variation ( $k$ ).

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- 2) The variable  $a$  varies inversely with  $b$ . The value of  $a$  is 8 when  $b = 0.2$ . Find the constant of variation ( $k$ ).

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- 3) The variable  $m$  varies directly with  $n$ . The value of  $m$  is 81 when  $n = 3$ . Find the constant of variation ( $k$ ).

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- 4) The variable  $c$  varies inversely with  $d$ . The value of  $c$  is 6 when  $d = \frac{2}{3}$ . Find the constant of variation ( $k$ ).

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- 5) The variable  $p$  varies directly with  $q$ . The value of  $p$  is 27 when  $q = 63$ . Find the constant of variation ( $k$ ).

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## Answer key

# Constant of Variation

L1S1

- 1) The variable  $y$  varies directly with  $z$ . The value of  $y$  is 45 when  $z = 3$ . Find the constant of variation ( $k$ ).

$$\underline{\mathbf{k = 15}}$$

- 2) The variable  $a$  varies inversely with  $b$ . The value of  $a$  is 8 when  $b = 0.2$ . Find the constant of variation ( $k$ ).

$$\underline{\mathbf{k = 1.6}}$$

- 3) The variable  $m$  varies directly with  $n$ . The value of  $m$  is 81 when  $n = 3$ . Find the constant of variation ( $k$ ).

$$\underline{\mathbf{k = 27}}$$

- 4) The variable  $c$  varies inversely with  $d$ . The value of  $c$  is 6 when  $d = \frac{2}{3}$ . Find the constant of variation ( $k$ ).

$$\underline{\mathbf{k = 4}}$$

- 5) The variable  $p$  varies directly with  $q$ . The value of  $p$  is 27 when  $q = 63$ . Find the constant of variation ( $k$ ).

$$\underline{\mathbf{k = \frac{3}{7}}}$$