

Maths – Multiplying and Dividing 10,100,100

Question 1

The scale on a map says that 1 cm on the map represents 10 000 cm in real life. A straight road is 2.8 cm long on the map. How long is this road in real life?

- a) 280 000 cm
- b) 28 cm
- c) 280 cm
- d) 28 000 cm
- e) 2800 cm

Question 2

$204 \times 7001 = 1428204$

What is 2040×7.001 ?

Handwritten notes:
 $\times 10$ (under 2040)
 $\div 1000 = \div 1000$ (under 7.001)

- a) 1428.204
- b) 14.28204
- c) 142 820.4
- d) 14 282.04
- e) 142.8204

Question 3

Syaza has a scale model of her car that is 100 times smaller than its actual size. The width of the roof on the scale model is 1.91 cm. What is the width of the roof on her car?

- a) 1.91 cm
- b) 1910 cm
- c) 191 cm
- d) 19.1 cm
- e) 0.191 cm

Handwritten note:
 $\times 100$ (under 1.91)

Question 4

$980\ 140 \div \underline{\hspace{1cm}} = 98.014 \times \underline{\hspace{1cm}}$

Which of the following numbers can be put in both gaps to make the calculation above correct?

- a) 100
- b) 10 000
- c) 0.1
- d) 10
- e) 1000

Question 5

A gift shop sells 6 paintings for £150. Vihaan buys 60 paintings from the gift shop. How much money does Vihaan spend on paintings?

- a) £15
- b) £150 000
- c) £150
- d) £15 000
- e) £1500

Verbal Reasoning – Choose two words one from each set that complete the sentence in the most sensible way.

Garage is to (store fix car) as **safe** is to (money bank lock).

- | | |
|--------------------------------------|--|
| <input type="radio"/> store | <input checked="" type="radio"/> money |
| <input type="radio"/> fix | <input type="radio"/> bank |
| <input checked="" type="radio"/> car | <input type="radio"/> lock |

Transitional is to (permanent frequent sluggish) as **fatigued** is to (driven energised devoted).

- | | |
|--|--|
| <input checked="" type="radio"/> permanent | <input type="radio"/> driven |
| <input type="radio"/> frequent | <input checked="" type="radio"/> energised |
| <input type="radio"/> sluggish | <input type="radio"/> devoted |

Pilot is to (airport aviation runway) as **choreographer** is to (dance ballet dancer).

- | | |
|---|--|
| <input type="radio"/> airport | <input checked="" type="radio"/> dance |
| <input checked="" type="radio"/> aviation | <input type="radio"/> ballet |
| <input type="radio"/> runway | <input type="radio"/> dancer |

Nibble is to (munch teeth eat) as **sip** is to (drink liquid straw).

- | | |
|--------------------------------------|--|
| <input type="radio"/> munch | <input checked="" type="radio"/> drink |
| <input type="radio"/> teeth | <input type="radio"/> liquid |
| <input checked="" type="radio"/> eat | <input type="radio"/> straw |

Non-Verbal – Spot the odd one out.

<p>a)</p> <p><input type="radio"/></p>	<p>b)</p> <p><input checked="" type="radio"/></p>	<p>c)</p> <p><input type="radio"/></p>	<p>d)</p> <p><input type="radio"/></p>	<p>e)</p> <p><input type="radio"/></p>
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In all other figures, the black shape is downwards reflection of the other two shapes joined together.

<p>a)</p> <p><input type="radio"/></p>	<p>b)</p> <p><input type="radio"/></p>	<p>c)</p> <p><input type="radio"/></p>	<p>d)</p> <p><input type="radio"/></p>	<p>e)</p> <p><input checked="" type="radio"/></p>
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All other figures have at least one small shape overlapping the edge of the larger shape.

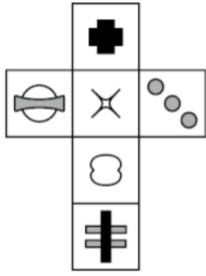
<p>a)</p> <p><input type="radio"/></p>	<p>b)</p> <p><input checked="" type="radio"/></p>	<p>c)</p> <p><input type="radio"/></p>	<p>d)</p> <p><input type="radio"/></p>	<p>e)</p> <p><input type="radio"/></p>
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In all other figures, the arrow points from a side of the shape to a corner.

<p>a)</p> <p><input checked="" type="radio"/></p>	<p>b)</p> <p><input type="radio"/></p>	<p>c)</p> <p><input type="radio"/></p>	<p>d)</p> <p><input type="radio"/></p>	<p>e)</p> <p><input type="radio"/></p>
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In all other figures, two shapes are made by the crossing arrows.

Spatial Reasoning – Which cube is made by the net?



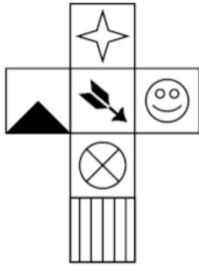
a)

b)

c)

d)

e)



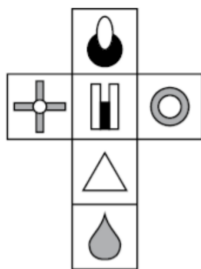
a)

b)

c)

d)

e)



a)

b)

c)

d)

e)