

# Topic Test 1 (20 minutes)

Basic number, fractions and decimals (non-calculator) - Higher

1 Circle the smallest number.

[1 mark]

$$\frac{11}{20}$$

$$\frac{3}{10}$$

$$\frac{1}{5}$$

$$\frac{1}{4}$$

2 Circle the largest number.

[1 mark]

4.1

4.1

4.11

4.111

3 Circle the decimal that is equivalent to  $\frac{21}{20}$

[1 mark]

1.01

1.05

1.1

1.5

4 Work out  $47.15 \times 0.08$

[2 marks]

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Answer \_\_\_\_\_

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5 Work out  $1\frac{2}{3} \times 4\frac{1}{5}$

Give your answer in its simplest form.

[2 marks]

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Answer \_\_\_\_\_

6 Use approximations to estimate the value of  $\frac{204 \times 3.99}{0.112}$

You **must** show your working.

[3 marks]

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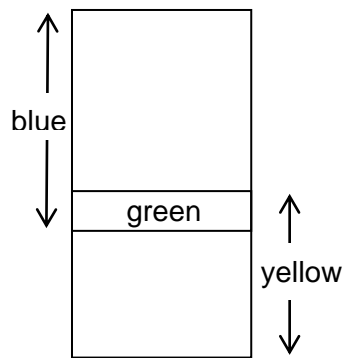
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Answer \_\_\_\_\_

7 Mia has a rectangle of cloth.

She dips the top  $\frac{5}{8}$  of the cloth in blue dye.

She dips the bottom  $\frac{9}{20}$  of the cloth in yellow dye.



Not drawn accurately

The part of the cloth that is dipped in both colours turns green.

Work out the fraction of cloth that turns green.

**[3 marks]**

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Answer \_\_\_\_\_

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8 A show is on Friday, Saturday and Sunday.

$\frac{2}{5}$  of the **total** tickets sold are for the Saturday show.

240 tickets are sold for the Saturday show.

Three times as many tickets are sold for the Sunday show as for the Friday show.

How many tickets are sold for the Sunday show ?

**[4 marks]**

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Answer \_\_\_\_\_

9 Express  $0.\dot{2}\dot{3}$  as a fraction in its simplest form.

**[3 marks]**

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Answer \_\_\_\_\_