Topic Test 1 (20 minutes)
Basic number, fractions and decimals (non-calculator) - Higher

1   Circle the smallest number.

[1 mark]

$\dfrac{11}{20}$ $\dfrac{3}{10}$ $\dfrac{1}{5}$ $\dfrac{1}{4}$

2   Circle the largest number.

[1 mark]

4.1   4.$\dot{1}$ 4.11   4.111

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

[1 mark]

1.01   1.05   1.1   1.5

4   Work out   47.15 × 0.08

[2 marks]

_____

_____

_____

_____

Answer   _____

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

Give your answer in its simplest form.

[2 marks]

Answer _____

6 Use approximations to estimate the value of $\dfrac{204 \times 3.99}{0.112}$
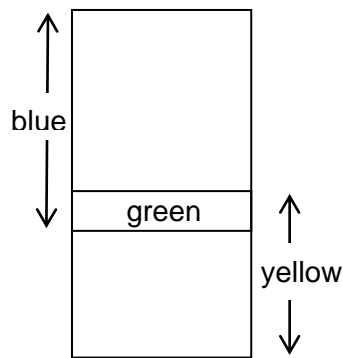
You **must** show your working.

[3 marks]

Answer _____

AQA Education (AQA) is a registered charity (number 1073334) and a company limited by guarantee registered in England and Wales (number 3644723). Our registered address is AQA, Devas Street, Manchester M15 6EX.

2 of 4

7   Mia has a rectangle of cloth.

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

She dips the bottom $\dfrac{9}{20}$ 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]

Answer _____

8   A show is on Friday, Saturday and Sunday.

$\dfrac{2}{5}$ 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]

Answer _____

9   Express $0.2\dot{3}$ as a fraction in its simplest form.

[3 marks]

Answer _____