

**AQA - Fractions, decimals and percentages – GCSE Mathematics Paper-2**1. **May/2020/Paper\_2F/No.9**

Members of a club are Senior, Adult or Junior.

(a) Here is a report about the members of the club.

18% are Senior

54% are Adult

38% are Junior

Give a reason why there **must** be a mistake in the report.**[1 mark]**

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(b) An Adult membership fee is £120

A Junior membership fee is  $\frac{1}{5}$  of the Adult fee.Work out the **total** membership fee for 2 Adults and 3 Juniors.**[3 marks]**

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Answer £ \_\_\_\_\_

2. May/2020/Paper\_2H/No.14

A marathon takes place each year.

In 2020 there were 6500 runners.

**Prediction**

For each of the next 3 years the number of runners will increase by 5%

Does this predict that in 2023 there will be more than 7500 runners?

You **must** show your working.

**[3 marks]**

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## 3. May/2020/Paper\_2H/No.16

On a restaurant menu there are

22 main dishes, of which  $\frac{4}{11}$  are gluten-free

7 rice dishes, which are all gluten-free

5 naan breads, of which 40% are gluten-free.

This Meal Deal is on the menu.

Choose one main dish, one rice dish and one naan bread

How many of the possible Meal Deals are totally gluten-free?

[3 marks]

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Answer \_\_\_\_\_

4. June/2019/Paper\_2F/No.2

Circle the fraction which is equal to 0.25

[1 mark]

$$\frac{1}{40}$$

$$\frac{2}{5}$$

$$\frac{3}{12}$$

$$\frac{4}{100}$$

5. June/2019/Paper\_2F/No.3

Here is a number line.



Which number is at A?

Circle your answer.

[1 mark]

3.3

3.55

3.6

3.8

## 6. June/2019/Paper\_2F/No.23

In a sport, injury time is added time played at the end of a match.  
The table shows the injury time,  $t$  (minutes) played in 380 matches.

Injury time, $t$ (minutes)	Frequency
$0 < t \leq 2$	59
$2 < t \leq 4$	158
$4 < t \leq 6$	106
$6 < t \leq 8$	45
$8 < t \leq 10$	12

(a) Circle the **two** words that describe the data.

[1 mark]

continuous

discrete

grouped

ungrouped

(b) Which class interval contains the median?

You **must** show your working.

[2 marks]

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Answer \_\_\_\_\_  $< t \leq$  \_\_\_\_\_

(c) What percentage of the matches had **more than** 6 minutes of injury time?

[2 marks]

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Answer \_\_\_\_\_ %

7. [June/2019/Paper\\_2F/No.26](#)

Circle the reciprocal of 4

[1 mark]

-4

2

0.4

0.25

## 8. Nov/2019/Paper\_2F/No.6

A shop has this offer.

£5 reduction if you spend more than £100  
or  
£10 reduction if you spend more than £150  
or  
£20 reduction if you spend more than £200

At the shop, dresses cost £42 each.

Amira buys 3 dresses.

Bobbi buys 5 dresses.

How much **more** than Amira does Bobbi pay?

[3 marks]

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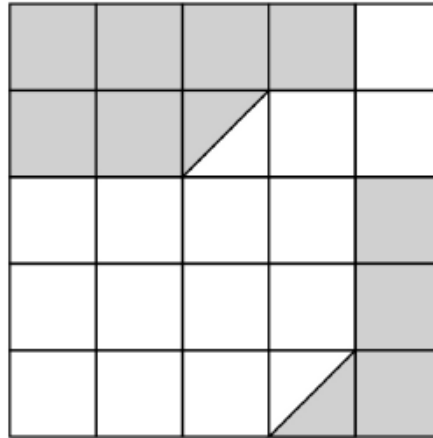
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Answer £ \_\_\_\_\_

9. Nov/2019/Paper\_2F/No.9

What percentage of this shape is shaded?

[2 marks]



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Answer \_\_\_\_\_ %



**10. Nov/2019/Paper\_2F/No.15**

The value of a house is £120 000

The value is expected to increase by 5% each year.

Work out the expected value after 4 years.

Give your answer to 2 significant figures.

You **must** show your working.

**[4 marks]**

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Answer £ \_\_\_\_\_

## 11. Nov/2019/Paper\_2H/No.3

Circle the number half way between  $\frac{7}{12}$  and  $\frac{3}{4}$

[1 mark]

$$\frac{7}{32}$$

$$\frac{5}{8}$$

$$\frac{2}{3}$$

$$\frac{1}{2}$$

## 12. Nov/2019/Paper\_2H/No.11

The value of a house is £120 000

The value is expected to increase by 5% each year.

Work out the expected value after 4 years.

Give your answer to 2 significant figures.

You **must** show your working.

[4 marks]

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Answer £ \_\_\_\_\_