AQA - Fractions, decimals and percentages – GCSE Mathematics Paper-3

1. May/2020/Paper_3F/No.1

What is 6.2819 to 2 decimal places?

Circle your answer.

[1 mark]

      6.2   6.28   6.29   6.3

2. May/2020/Paper_3F/No.2

50% of a number is 40

Circle the number.

[1 mark]

      20   80   800   2000

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3.

Greg wants to buy a games console that costs £267.50

He already has £125

He will save £7.50 each week.

In how many weeks will he have saved enough?

[3 marks]

_____
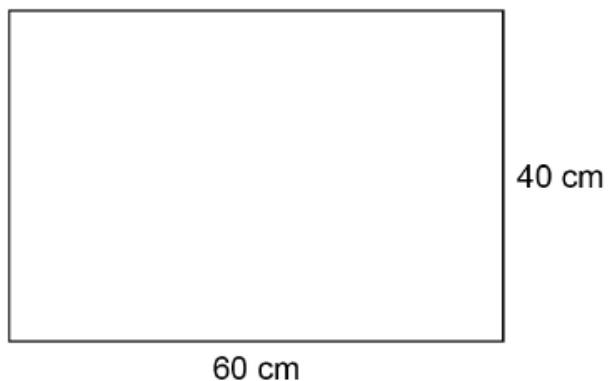
_____

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Answer _____

4. May/2020/Paper_3F/No.29

A rectangle has length 60 cm and width 40 cm

Not drawn
accurately

40 cm

60 cm

The length decreases by 15%

The width decreases by 10%

Sue says,

"The perimeter decreases by 25% because 15% + 10% is 25%"

Is she correct?

You **must** show calculations to support your answer.

[4 marks]

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5. May/2020/Paper_3H/No.3

Work out 320 as a percentage of 80

Circle your answer.

[1 mark]

25%   75%   300%   400%

May/2020/Paper_3H/No.3

6. May/2020/Paper_3H/No.14

A rectangle has length 60 cm and width 40 cm

Not drawn
accurately

40 cm

60 cm

The length decreases by 15%

The width decreases by 10%

Sue says,

"The perimeter decreases by 25% because 15% + 10% is 25%"

Is she correct?

You **must** show calculations to support your answer.

[4 marks]

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7. June/2019/Paper_3F/No.5

Put these numbers in order from smallest to largest.

$$\frac{31}{40} \qquad \frac{3}{4} \qquad \frac{7}{10} \qquad 0.725$$

[2 marks]

_____

_____

_____

_____

Smallest _____

_____

_____

Largest _____

8. June/2019/Paper_3H/No.1

Work out £1.50 as a fraction of 60p

Circle your answer.

[1 mark]

$$\frac{2}{5} \qquad\qquad \frac{1}{4} \qquad\qquad \frac{4}{1} \qquad\qquad \frac{5}{2}$$

June/2019/Paper_3H/No.1

9. June/2019/Paper_3H/No.10

Mia wants to borrow £6000 and repay it, with interest, after two years.

She sees two offers for loans.

<table>
<tr><td>

Offer 1

Compound interest

3% per year

</td><td>

Offer 2

Compound interest

First year 1%

Second year 5%

</td></tr>
</table>

Mia says,

"I will pay back the same amount because the average of 1% and 5% is 3%"

Is she correct?

You **must** show your working.

[3 marks]

_____

_____

_____

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_____

_____

_____

_____

10. Nov/2019/Paper_3F/No.5

(a) Convert $\dfrac{47}{8}$ to a mixed number.

[1 mark]

Answer _____

(b) Convert $\dfrac{61}{128}$ to a decimal.

Give your answer to 2 decimal places.

[2 marks]

Answer _____

11. Nov/2019/Paper_3F/No.6

George buys some food for £16.55

He pays the exact amount with two notes and four coins.

List the notes and coins.

[2 marks]

Notes _____ _____

Coins _____ _____ _____ _____

9

12. Nov/2019/Paper_3F/No.13

The cost of 5 kg of potatoes is £3.20

The cost of $\frac{1}{2}$ kg of carrots is 29p

Work out the **total** cost of 12 kg of potatoes and $1\frac{1}{2}$ kg of carrots.

[3 marks]

_____

_____

_____

_____

_____

Answer £_____

13. Nov/2019/Paper_3H/No.15

When you earn money you pay income tax.

The amount you pay depends on how much you earn that year.

You pay

     0%   on the first   £12 500 you earn

  20%   on the next   £37 500 you earn

  40%   on the next £112 500 you earn.

One year, Kim paid £9260 income tax.

Work out how much she earned that year.

[4 marks]

Answer £ _____