

**AQA - Numbers – GCSE Mathematics Paper 1**

1. [June/2021/Paper\\_1F/No.3](#)

What is 260 millimetres in centimetres?

Circle your answer.

[1 mark]

0.26 cm

2.6 cm

26 cm

2600 cm

2. [June/2021/Paper\\_1F/No.5](#)

Work out  $(-8) \times 5$

[1 mark]

Answer \_\_\_\_\_

**3. June/2021/Paper\_1F/No.6**

Luke buys 4 apples and 5 bananas.

The total cost is £3.70

Each apple costs 35p

Work out the cost in pence of each banana.

**[4 marks]**

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Answer \_\_\_\_\_ pence

4. June/2021/Paper\_1F/No.7(b)

(b) Rashid spent 30 minutes on each piece of homework.

Work out the **total** time he spent on homework for these three subjects.

Give your answer in hours and minutes.

[3 marks]

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Answer \_\_\_\_\_ hours \_\_\_\_\_ minutes

5. June/2021/Paper\_1F/No.8

A travel company is taking some passengers on a trip.

They can use coaches or minibuses.

Each coach can carry 53 passengers.

Each minibus can carry 12 passengers.

The passengers going on the trip would exactly fill 3 coaches.

If the company uses only minibuses, how many will they need?

**[4 marks]**

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Answer \_\_\_\_\_

6. June/2021/Paper\_1F/No.10

Pavel uses his calculator to work out  $352 \times 7268$

Circle the last digit in the answer.

[1 mark]

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7. [June/2021/Paper\\_1F/No.15](#)  
Here is a calculation.

$$31 \times 84 = 2604$$

You can use the calculation to help answer the following questions.

- (a) Work out  $2604 \div 84$

[1 mark]

Answer \_\_\_\_\_

- (b) Work out  $3.1 \times 8.4$

[1 mark]

Answer \_\_\_\_\_

- (c) Work out  $31 \times 85$

[2 marks]

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Answer \_\_\_\_\_

8. June/2021/Paper\_1F/No.20

Freddie tries to work out  $\frac{29.15 + 83.47}{9.82}$

His answer is 37.65

By rounding each number to the nearest 10, show that his answer is incorrect.

**[3 marks]**

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9. June/2021/Paper\_1F/No.27

(a) Work out  $2000 \times 70\,000$

Give your answer in standard form.

[2 marks]

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Answer \_\_\_\_\_

(b) Work out  $\frac{1.8 \times 10^2}{3 \times 10^{-1}}$

Give your answer as an ordinary number.

[2 marks]

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Answer \_\_\_\_\_



10. June/2021/Paper\_1F/No.28

$A$ ,  $B$ ,  $C$  and  $D$  are junctions on a motorway.

Not drawn  
accurately



distance  $CD = 3 \times$  distance  $AB$

distance  $BC = 25$  miles

Salma drives from  $A$  to  $C$ .

She drives for 30 minutes at an average speed of 62 miles per hour.

Work out the distance  $AD$ .

[4 marks]

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Answer \_\_\_\_\_ miles

11. June/2021/Paper\_1F/No.30

Write 200 as a product of prime factors.

Give your answer in index form.

**[3 marks]**

Answer \_\_\_\_\_

12. June/2021/Paper\_1H/No.5

Write 200 as a product of prime factors.

Give your answer in index form.

[3 marks]

Answer \_\_\_\_\_

13. June/2021/Paper\_1H/No.7

Use approximations to estimate the answer to  $\frac{\sqrt{97} + 2.014^3}{0.49}$

[3 marks]

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Answer \_\_\_\_\_

## 14. June/2021/Paper\_1H/No.10

(a) Work out  $2000 \times 70\,000$

Give your answer in standard form.

[2 marks]

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Answer \_\_\_\_\_

(b) Work out  $\frac{1.8 \times 10^2}{3 \times 10^{-1}}$

Give your answer as an ordinary number.

[2 marks]

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Answer \_\_\_\_\_

## 15. June/2021/Paper\_1H/No.11

$A$ ,  $B$ ,  $C$  and  $D$  are junctions on a motorway.

Not drawn  
accurately



$$\text{distance } CD = 3 \times \text{distance } AB$$

$$\text{distance } BC = 25 \text{ miles}$$

Salma drives from  $A$  to  $C$ .

She drives for 30 minutes at an average speed of 62 miles per hour.

Work out the distance  $AD$ .

[4 marks]

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Answer \_\_\_\_\_ miles

16. June/2021/Paper\_1H/No.25

Show that  $\frac{\sqrt{150} - \sqrt{6}}{\sqrt{2} \times \sqrt{3}}$  simplifies to an integer.

[3 marks]

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