

Numbers – GCSE Mathematics Paper 1

1. No.1

(a) Circle the answer to $150 \div 5$

[1 mark]

3

30

300

3000

(b) Circle the answer to $5 - 7$

[1 mark]

-12

-2

2

12

(c) Circle the answer to -3×3

[1 mark]

-9

-6

6

9

2. No.3

By rounding each number to the nearest 10, estimate the value of 31×18

[3 marks]

Answer

3. No.6(b)

(b) Work out $60 \div 2 + 4$

[2 marks]

Answer _____

4. No.3

What is 260 millimetres in centimetres?

Circle your answer.

[1 mark]

0.26 cm

2.6 cm

26 cm

2600 cm

5. No.5

Work out $(-8) \times 5$

[1 mark]

Answer _____

6. 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]

Answer _____ pence

7. 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]

Answer _____ hours _____ minutes

8. 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]

Answer _____

9. No.10

Pavel uses his calculator to work out 352×7268

Circle the last digit in the answer.

[1 mark]

0

2

6

8

10. 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 3.1×8.4 **[1 mark]**

Answer _____

(c) Work out 31×85 **[2 marks]**

Answer _____

11. 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]

12. No.27**(a)** Work out $2000 \times 70\,000$

Give your answer in standard form.

[2 marks]

Answer _____

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

Give your answer as an ordinary number.

[2 marks]

Answer _____

13. 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]

Answer _____ miles

14. No.30

Write 200 as a product of prime factors.

Give your answer in index form.

[3 marks]

Answer _____

15. No.5

Write 200 as a product of prime factors.

Give your answer in index form.

[3 marks]

Answer _____

16. No.7

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

[3 marks]

Answer _____

17. No.10

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

Give your answer in standard form.

[2 marks]

Answer _____

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

Give your answer as an ordinary number.

[2 marks]

Answer _____

18. No.11

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]

Answer _____ miles

19. No.25

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

[3 marks]
