

Key stage 2

Mathematics

Paper 3: arithmetic

First name

Middle name

Last name

Date of birth

Day

Month

Year

School name

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Please do not write on this page.

Instructions

You **must not use a calculator** to answer any questions in this test.

Questions and answers

You have **30 minutes** to complete this test.

Work as quickly and as carefully as you can.

Put your answer in the **box** for each question.

All answers should be given as a **single value**.

For questions expressed as common fractions or mixed numbers, you should give your answers as common fractions or mixed numbers.

If you cannot do a question, **go on to the next one**.

You can come back to it later, if you have time.

If you finish before the end, go back and check your work

Marks

The number under each box at the side of the page tells you the number of marks available for each question.

In this test, long division and long multiplication questions are worth **2 marks each**. You will be awarded **2 marks** for a correct answer. You may get **1 mark** for showing a formal method.

All other questions are worth **1 mark each**.

1

$= 8,000 + 42$

1 mark

2

$8 \times 53 =$

1 mark

3

$7.14 + 9.109 =$

1 mark

4

$210 \div 7 =$

1 mark

5

$\boxed{} = 9,235 + 984$

1 mark

6

$984 = 900 + \boxed{} + 4$

1 mark

7

$9,600 \div 12 =$

1 mark

8

$8,092 \times 0 =$

1 mark

9

$+ 8 = 191$

1 mark

10

$184 \div 8 =$

1 mark

11

$108 - 92 =$

1 mark

12

$801 - \text{ } = 298$

1 mark

13

$$16.27 \times 100 =$$

1 mark

14

$$1,320 \div 12 =$$

1 mark

15

$$4^2 - 2^3 =$$

1 mark

16

$$54 \div (21 - 15)$$

☐

1 mark

17

$$204 \times 1,000 =$$

☐

1 mark

18

$$40\% \text{ of } 5,000 =$$

☐

1 mark

19

$$9 - 1.42 =$$

1 mark

20

$$10 - 1.8 =$$

1 mark

21

$$0.8 \div 1,000 =$$

1 mark

22

$$1\frac{2}{5} - \frac{4}{5} =$$

1 mark

23

$$\frac{3}{4} + \frac{2}{5} =$$

1 mark

24

$$\begin{array}{r} 917 \\ \times 38 \\ \hline \end{array}$$

Show
your
method

2 marks

25

$45\% \text{ of } 870 =$

1 mark

26

$2\frac{2}{3} - 1\frac{2}{5} =$

1 mark

27

2 9 6 6 7

Show
your
method

2 marks

28

$$\frac{7}{11} - \frac{3}{8} =$$

1 mark

29

$$52\% \text{ of } 1,800 =$$

1 mark

30

$$\begin{array}{r} 2419 \\ \times 73 \\ \hline \end{array}$$

Show
your
method

2 marks

31

$$2\frac{1}{5} + 1\frac{1}{3} =$$

1 mark

32

$$\frac{2}{7} \div 4 =$$

1 mark

33

$$27\% \text{ of } 890 =$$

1 mark

34

$$1\frac{2}{3} \times 12 =$$

1 mark

35

$$\frac{2}{3} \times 270 =$$

1 mark

36

9 3 8 0 9 1

Show
your
method

2 marks

Answers

1. **8,042** = 8,000 + 42
2. $8 \times 53 = \mathbf{424}$
3. $7.14 + 9.109 = \mathbf{16.249}$
4. $210 \div 7 = \mathbf{30}$
5. **10,219** = 9,235 + 984
6. $984 = 900 + \mathbf{80} + 4$
7. $9,600 \div 12 = \mathbf{800}$
8. $8,092 \times 0 = \mathbf{0}$
9. **183** + 8 = 191
10. $184 \div 8 = \mathbf{23}$
11. $108 - 92 = \mathbf{16}$
12. $801 - \mathbf{503} = 298$
13. $16.27 \times 100 = \mathbf{1,627}$
14. $1,320 \div 12 = \mathbf{110}$
15. $4^2 - 2^3 = \mathbf{8}$
16. $54 \div (21 - 15) = \mathbf{9}$
17. $204 \times 1,000 = \mathbf{204,000}$
18. 40% of 5,000 = **2,000**
19. $9 - 1.42 = \mathbf{7.58}$
20. $10 - 1.8 = \mathbf{8.2}$
21. $0.8 \div 1,000 = \mathbf{0.0008}$
22. $1\frac{2}{5} - \frac{4}{5} = \mathbf{\frac{3}{5}}$
23. $\frac{3}{4} + \frac{2}{5} = \mathbf{\frac{23}{20}} = 1\frac{3}{20}$
24. $917 \times 38 = \mathbf{34,846}$
25. 45% of 870 = **391.5**
26. $2\frac{2}{3} - 1\frac{2}{5} = \mathbf{1\frac{4}{15}}$
27. $667 \div 29 = \mathbf{23}$
28. $\frac{7}{11} - \frac{3}{8} = \mathbf{\frac{23}{88}}$
29. 52% of 1,800 = **936**
30. $2,419 \times 73 = \mathbf{176,587}$
31. $2\frac{1}{5} + 1\frac{1}{3} = \mathbf{\frac{53}{15}} = 3\frac{8}{15}$
32. $\frac{2}{7} \div 4 = \mathbf{\frac{2}{28}} = \frac{1}{14}$
33. 27% of 890 = **240.3**
34. $1\frac{2}{3} \times 12 = \mathbf{20}$
35. $\frac{2}{3} \times 270 = \mathbf{180}$
36. $8091 \div 93 = \mathbf{87}$