

SATS BOOT CAMP

National curriculum tests

Key Stage 2

Mathematics

Arithmetic

First name	
Last name	

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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

$$= 4,000 + 80$$

1 mark

2

$$2.25 \div 10 =$$

1 mark

3

$$10,000 - 450 =$$

1 mark

4

$$4.3 \times 2 =$$



1 mark

5

$$26 + 55 =$$



1 mark

6

$$4.74 + 2.136 =$$



1 mark

7

$$160 \div 4 =$$

1 mark

8

$$(3 \times 20) - 9 =$$

1 mark

9

$$110 \div 11 =$$

1 mark

10

75% of 4,500 =

1 mark

11

704 – = 696

1 mark

12

= 99 – 54

1 mark

13

$$1,440 \div 12 =$$

1 mark

14

$$36.19 \times 10 =$$

1 mark

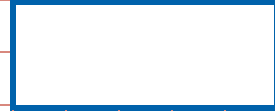
15

$$90 \div (20 - 11) =$$

1 mark

16

$$205 \times 1,000 =$$



1 mark

17

$$4^3 =$$



1 mark

18

$$9 - 4.35 =$$



1 mark

19

$$30\% \text{ of } 3,000 =$$

--



1 mark

20

$$10 - 1.1 =$$

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1 mark

21

$$0.6 \div 100 =$$

[illegible]

1 mark

22

$2\frac{2}{9} - \frac{5}{9} =$

1 mark

1 mark

23	$\begin{array}{r} 659 \\ \times \quad 84 \\ \hline \end{array}$	
Show your method		<div></div> <div>2 marks</div>

**Show
your
method**

2 marks

24	$\frac{3}{5} + \frac{1}{4} =$	<div></div> 1 mark

25	4 6 8 7 4	<div></div> 2 marks
Show your method		

26

$$3\frac{1}{4} + 1\frac{1}{8} =$$

1 mark

27

$$20\% \text{ of } 440 =$$

1 mark

28

$$\frac{7}{8} - \frac{1}{5} =$$

1 mark

29

$$(10 \times 3) \div (9 - 4) =$$

1 mark

30

$$\begin{array}{r} 2957 \\ \times \quad 53 \\ \hline \end{array}$$

Show
your
method

2 marks

31

$$\frac{5}{6} \div 2 =$$

--

1

1 mark

32

$$3\frac{1}{4} - \frac{2}{3} =$$

--

1

1 mark

33

28% of 500 =

--



1 mark

34

$$1\frac{3}{7} \times 10 =$$

--

1 mark

35

$$\frac{7}{8} \times 720 =$$

[illegible]

10

1 mark

36

9	2	6	8	0	8
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**Show
your
method**

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2 marks

[END OF TEST]

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Answers

Qu.	Requirement	Mark	Additional guidance
1	4,080	1m	
2	0.225	1m	
3	9,550	1m	
4	8.6	1m	
5	81	1m	
6	6.876	1m	
7	40	1m	
8	51	1m	
9	10	1m	
10	3,375	1m	Do not accept 3,375%
11	8	1m	
12	45	1m	Do not accept -45
13	120	1m	
14	361.9	1m	
15	10	1m	
16	205,000	1m	
17	64	1m	
18	4.65	1m	
19	900	1m	Do not accept 900%
20	8.9	1m	
21	0.006	1m	
22	$1\frac{6}{9}$	1m	<p>Accept equivalent fractions or an exact decimal equivalent, e.g. 1.666666 (accept any unambiguous indication of the recurring digits).</p> <p>Do not accept rounded or truncated decimals.</p>
23	<p>Award TWO marks for the correct answer of 55,356</p> <p>If the answer is incorrect, award ONE mark for a formal method of long multiplication with no more than ONE arithmetic error.</p>	Up to 2m	<p>Working must be carried through to reach a final answer for the award of ONE mark.</p> <p>Do not award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens.</p>

Qu.	Requirement	Mark	Additional guidance
24	$\frac{17}{20}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.85
25	Award TWO marks for the correct answer of 19 If the answer is incorrect, award ONE mark for the formal methods of division with no more than ONE arithmetic error.	Up to 2m	Working must be carried through to reach a final answer for the award of ONE mark. Short division methods must be supported by evidence of appropriate carrying figures to indicate the use of a division algorithm, and be a complete method. The carrying figure must be less than the divisor.
26	$4\frac{3}{8}$ OR $\frac{35}{8}$	1m	Accept equivalent mixed numbers, fractions or an exact decimal equivalent, e.g. 4.375
27	88	1m	Do not accept 88%
28	$\frac{27}{40}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.675 (accept any unambiguous indication of the recurring digits). Do not accept rounded or truncated decimals.
29	6	1m	
30	Award TWO marks for the correct answer of 156,721 If the answer is incorrect, award ONE mark for the formal method of long multiplication with no more than ONE arithmetic error.	Up to 2m	Working must be carried through to reach a final answer for the award of ONE mark. Do not award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens.
31	$\frac{5}{12}$	1m	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.41666 (accept any unambiguous indication of the recurring digits). Do not accept rounded or truncated decimals.

Qu.	Requirement	Mark	Additional guidance
32	$2\frac{7}{12}$ OR $\frac{31}{12}$	1m	Accept equivalent mixed numbers or fractions.
33	140	1m	Do not accept 140%
34	$14\frac{2}{7}$ OR $\frac{100}{7}$	1m	Accept equivalent mixed numbers or fractions.
35	630	1m	
36	Award TWO marks for the correct answer of 74 If the answer is incorrect, award ONE mark for the formal methods of division with no more than ONE arithmetic error.	Up to 2m	Working must be carried through to reach a final answer for the award of ONE mark. Short division methods must be supported by evidence of appropriate carrying figures to indicate the use of a division algorithm, and be a complete method. The carrying figure must be less than the divisor.