

Maths SATs paper 1: arithmetic

First name		
Middle name		
Last name		
Date of birth	Day	Month	Year
School name		

Instructions

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

Questions and answers

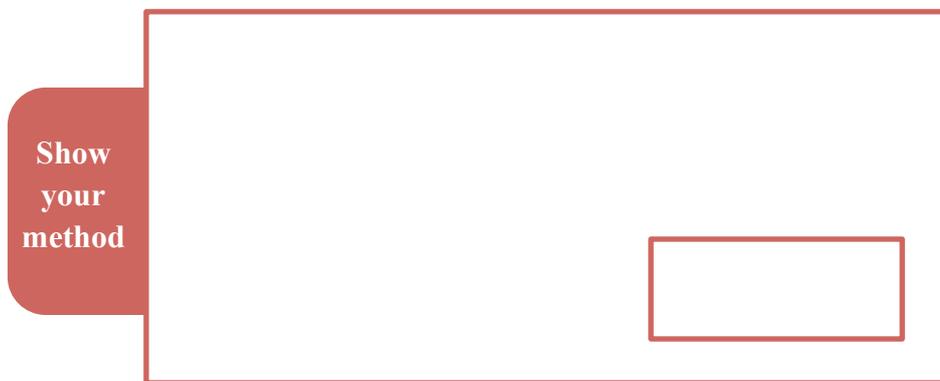
You have **30 minutes** to complete this test.

Follow the instructions for each question.

Work as quickly and as carefully as you can.

If you need to do working out, you can use the space around the question.

Some questions have a method box like this:



For these questions, you may get a mark for showing your method.

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 line at the side of the page tells you the maximum number of marks for each question.

1. $70 + 1000 =$

1 mark

2. $909 + 1535 =$

1 mark

3. $\frac{6}{8} + \frac{5}{8} =$

1 mark

4. $435 \div 1 =$

1 mark

5. $632 - 70 =$

1 mark

6. $5.3 + 2.019 =$

1 mark

7. $7600 + 500 =$

1 mark

8. $7 \times 44 =$

1 mark

9. $54 \div 9 =$

1 mark

10. $149 \times 6 =$

1 mark

11. $5726 - 613 =$

1 mark

12. $\frac{62}{100} - \frac{46}{100} =$

1 mark

13. - 200 = 2073

1 mark

14. $70 + (24 \div 4) =$

1 mark

15. $\frac{6}{8} \times \frac{3}{5} =$

1 mark

16. $40 \times 60 =$

1 mark

17. $711 \div 9 =$

1 mark

18. $0.08 \div 10 =$

1 mark

19. $3456 \times 1000 =$

1 mark

20. $17 \overline{)714}$

2 marks

21. $8 - 4.62 =$

1 mark

22.
$$\begin{array}{r} 3974 \\ 32 \times \\ \hline \end{array}$$

2 marks

23. $\frac{3}{4} - \frac{3}{8} =$

1 mark

24.
$$\begin{array}{r} 527 \\ 36 \times \\ \hline \end{array}$$

2 marks

25. $58.7 - 23.564 =$

1 mark

26. $\frac{1}{3} + \frac{1}{4} + \frac{1}{12} =$

1 mark

27. $\frac{6}{7} \div 6 =$

1 mark

28. $\frac{7}{10} \div 2 =$

1 mark

29. 65% of 540 =

1 mark

30. $3\frac{1}{5} + \frac{3}{10} =$

1 mark

31. 11% of 600 =

1 mark

32. $\frac{3}{4} - \frac{1}{5} =$

1 mark

33. $0.7 \times 300 =$

1 mark

34. $19\% \times 1000 =$

1 mark

35. $2\frac{1}{4} \times 49 =$

1 mark

36. $67 \overline{) 3283}$

2 marks

The end

Answers

Qu	Requirement	Mark	Additional Guidance
1.	1,070	1	
2.	2,444	1	
3.	$1 \frac{3}{8}$ or $\frac{11}{8}$	1	Accept equivalent mixed numbers, fractions or an exact decimal equivalent, e.g. 1.375. Do not accept rounded or truncated decimals.
4.	435	1	
5.	562	1	
6.	7.319	1	
7.	8,100	1	
8.	308	1	
9.	6	1	
10.	894	1	
11.	5,113	1	
12.	$\frac{4}{25}$	1	Accept equivalent fractions or an exact decimal equivalent, e.g. $\frac{16}{100}$, $\frac{8}{50}$ or 0.16
13.	2,273	1	
14.	76	1	
15.	$\frac{9}{20}$	1	Accept equivalent fractions or an exact decimal equivalent, e.g. $\frac{18}{40}$ or 0.16
16.	2,400	1	

17.	79	1	
18.	0.008	1	
19.	3,456,000	1	
20.	<p>Award TWO marks for the correct answer of 42.</p> <p>If the answer is incorrect, award ONE mark for a formal method of division with no more than ONE arithmetic error.</p>	2	<p>Working must be carried through to reach a final answer for the award of ONE mark.</p> <p>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.</p>
21.	3.38	1	
22.	<p>Award TWO marks for the correct answer of 127,168. If the answer is incorrect, award ONE mark for a formal method of long multiplication with no more than ONE arithmetic</p>	2	<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>
23.	$\frac{1}{2}$	1	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.5
24.	<p>Award TWO marks for the correct answer of 18972.</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>	2	<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>
25.	35.136	1	
26.	$\frac{2}{3}$	1	Accept equivalent fractions or an exact decimal equivalent, e.g. $0.\overline{66}$ (accept any unambiguous indication of the recurring digit).

27.	$\frac{1}{7}$	1	An equivalent fraction or decimal e.g. 0.142 to 3d.p.
28.	$\frac{7}{20}$	1	Accept equivalent fractions or an exact decimal equivalent, e.g. 0.35
29.	351	1	Do not accept 351%
30.	$3\frac{1}{2}$ or $\frac{35}{10}$	1	Accept equivalent mixed numbers, fractions or an exact decimal equivalent, e.g. 3.5 Do not accept rounded or truncated decimals. Do not accept $2\frac{3}{2}$
31.	66	1	Do not accept 66%
32.	$\frac{11}{20}$	1	Accept equivalent fractions or an exact decimal equivalent, e.g. $\frac{22}{40}$ or 0.55 Do not accept rounded or truncated decimals.
33.	210	1	
34.	190	1	Do not accept 190%
35.	$110\frac{1}{4}$	1	Accept equivalent fractions or an exact decimal equivalent e.g. $\frac{441}{4}$ or 110.25
36.	Award TWO marks for the correct answer of 49. If the answer is incorrect, award ONE mark for a formal method of division with no more than ONE arithmetic error.	2	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.
Total = 40 marks			