

Key Stage 2 SATs

Mathematics Practice Test and Mark Scheme Paper 1: Arithmetic

Pack 2: 2017 (new curriculum)



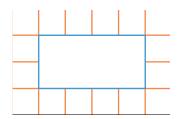
First name	
Last name	
Class	
School	
Score	

Instructions

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

Questions and answers

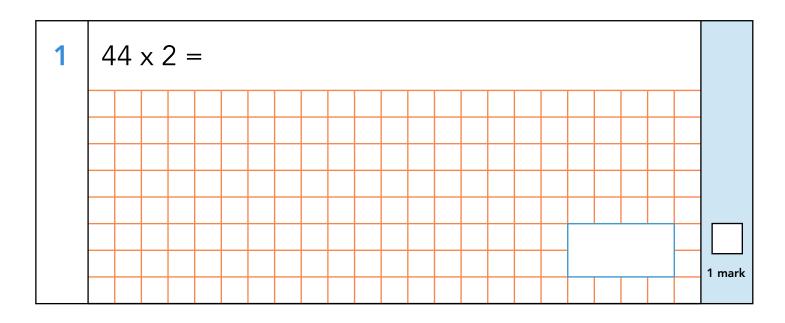
- Work as quickly and as carefully as you can.
- Put your answer in the box for each question.

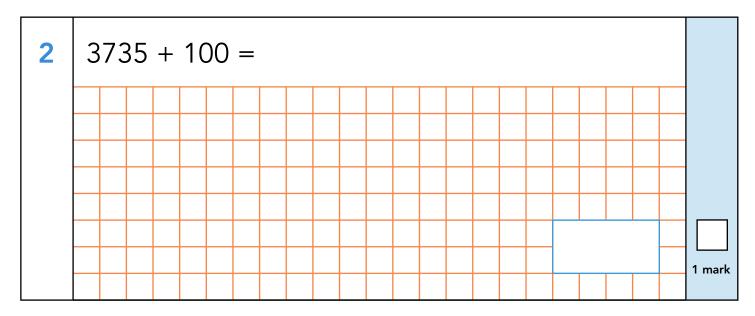


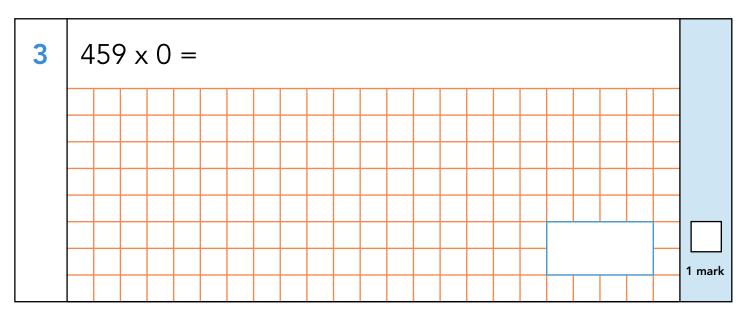
- All answers should be given as a single value.
- For questions expressed as common fractions or mixed numbers, you should give your answers as common fractions or mixed numbers.
- If you cannot do a question, **go on to the next one**. You can come back to it later, if you have time.
- If you finish before the end, go back and check your work.

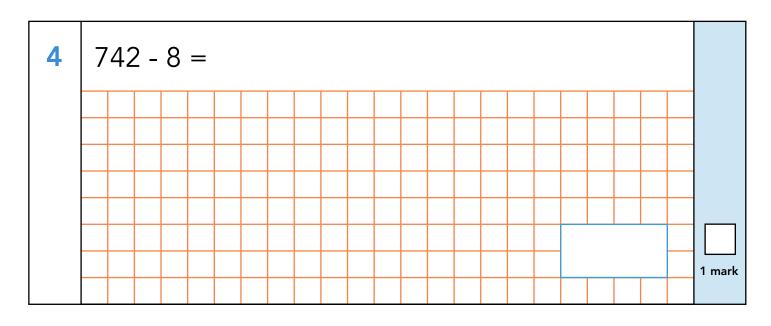
Marks

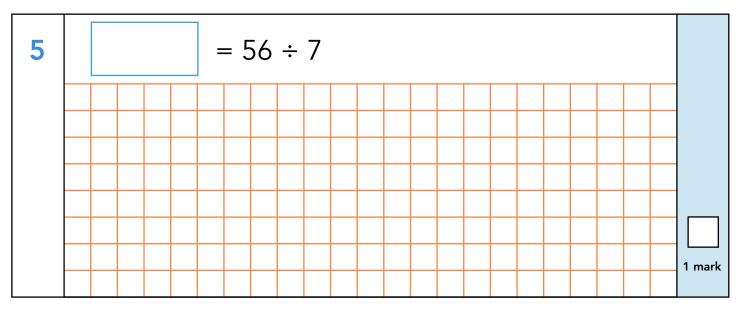
- The number under each box at the side of the page tells you the maximum number of marks for each question.
- In this test, long division and long multiplication questions are worth **TWO** marks each. You will be awarded **TWO** marks for a correct answer. You may get **ONE** mark for showing a formal method.
- All other questions are worth ONE mark each.
- If you finish before the end, go back and check your work.

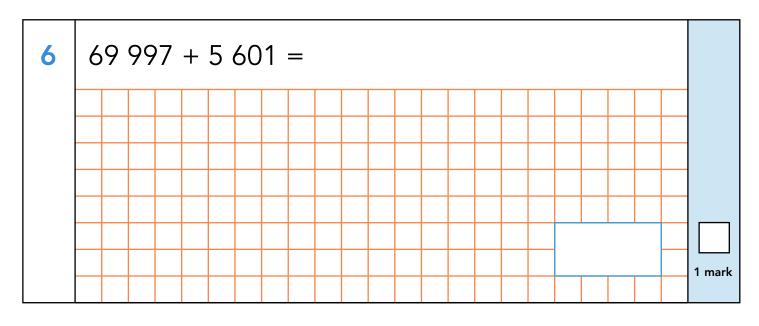


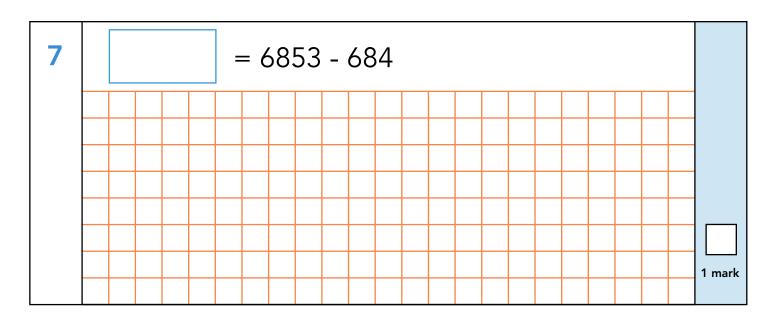


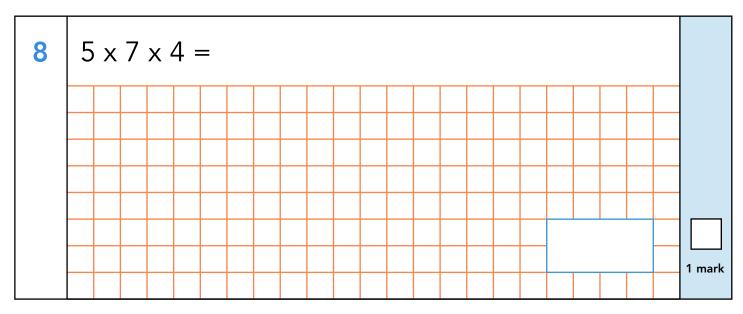


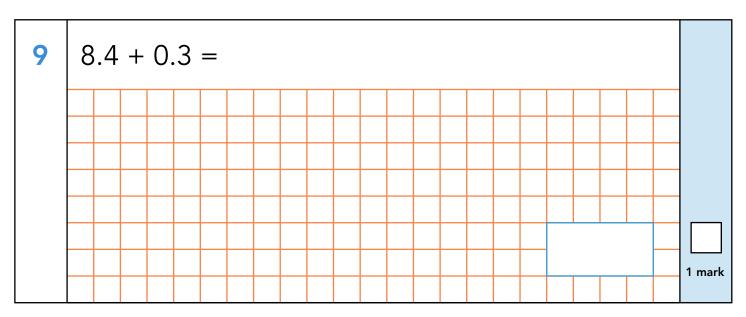


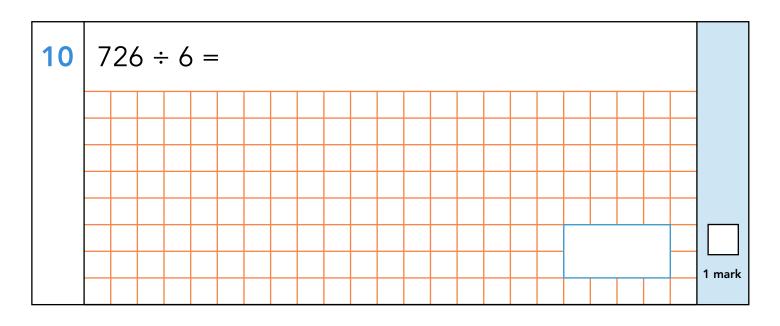


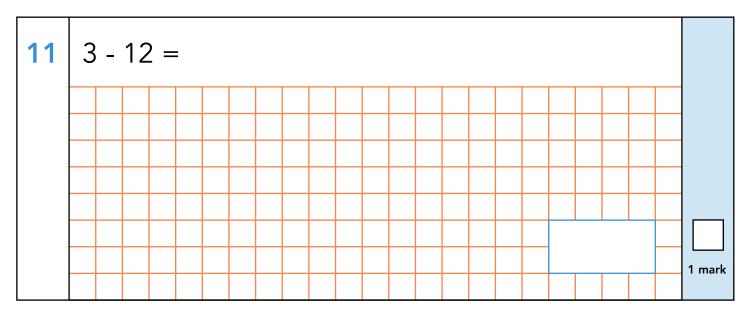


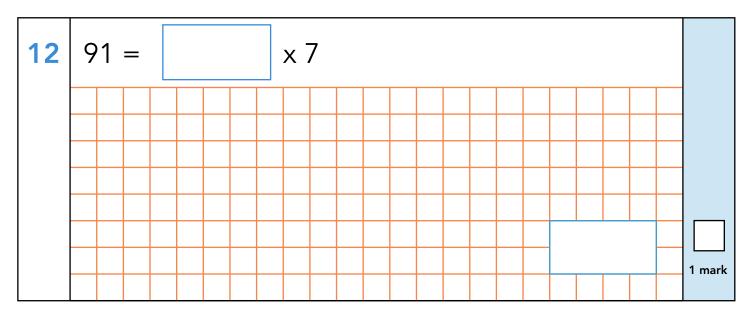


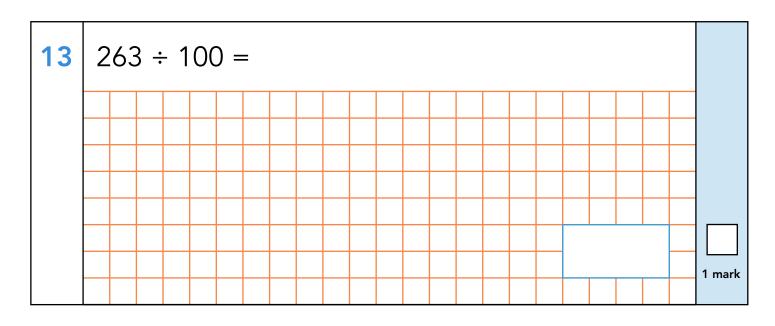


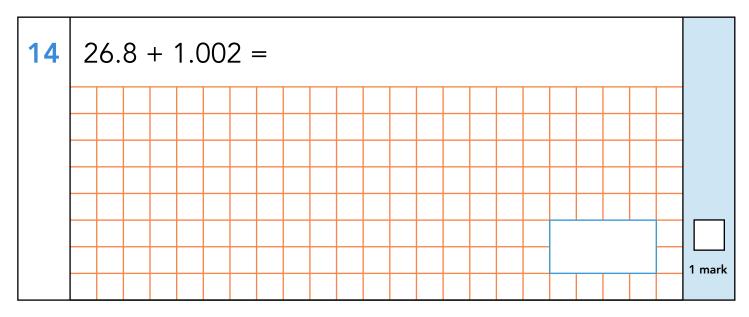


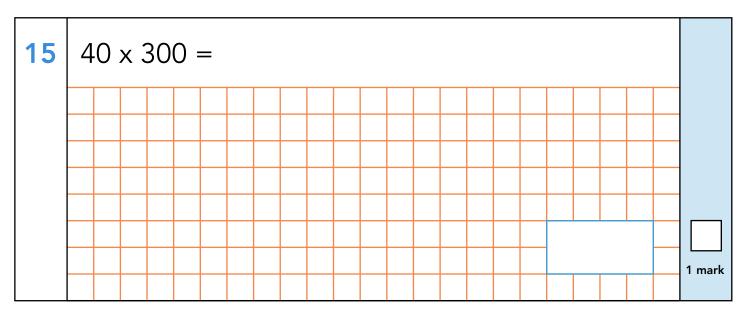


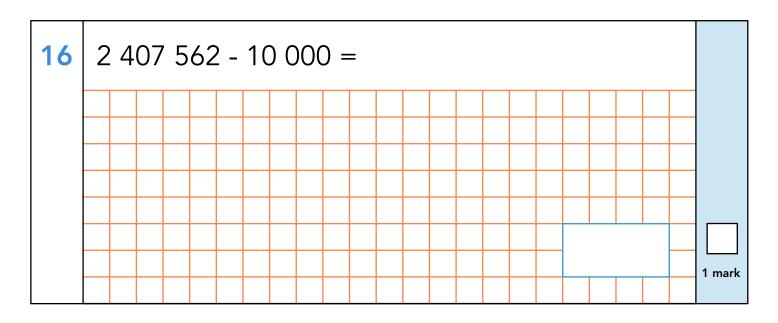


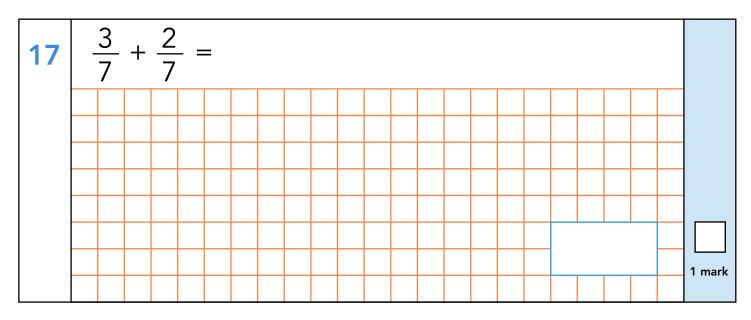


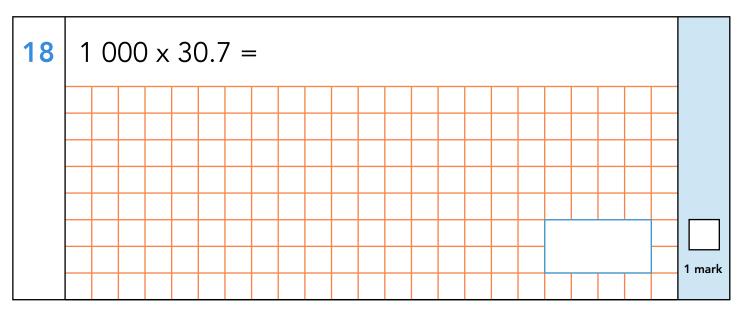


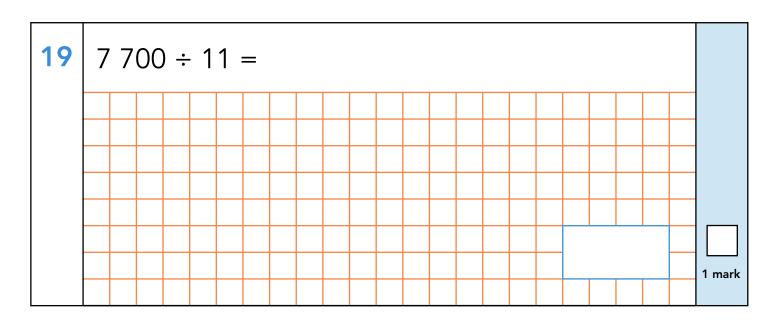


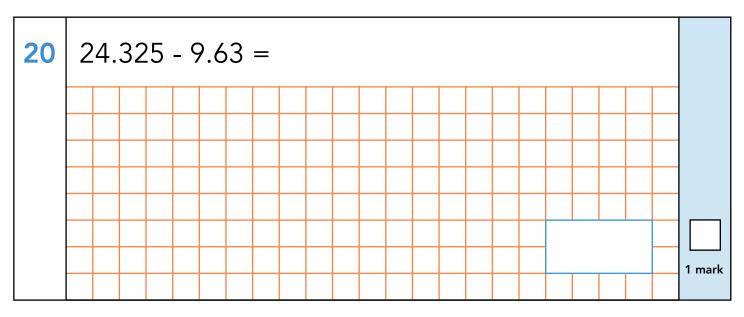


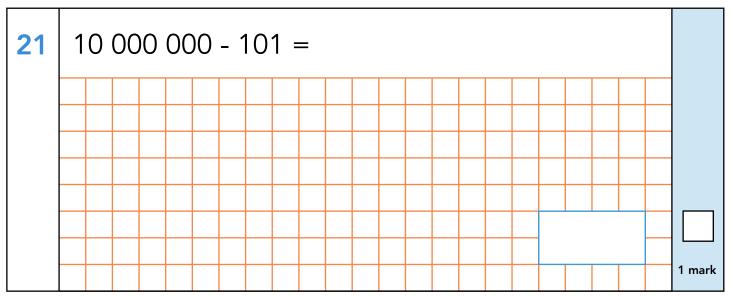


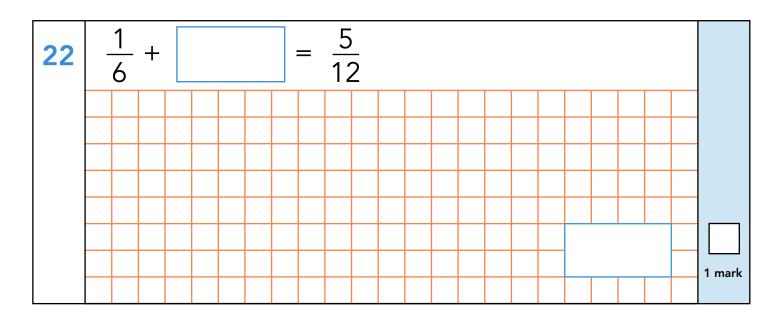


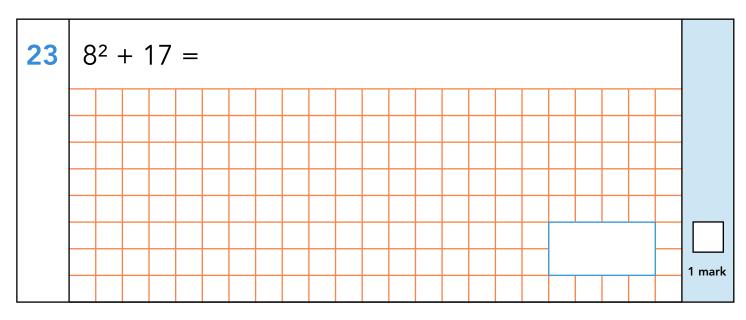


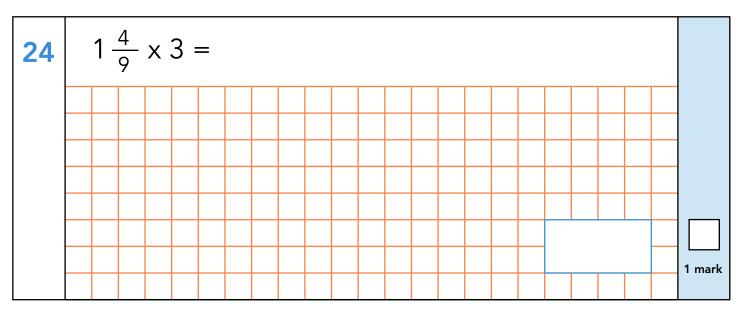


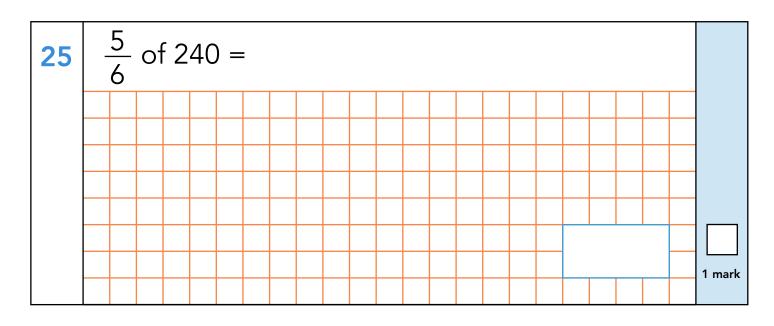


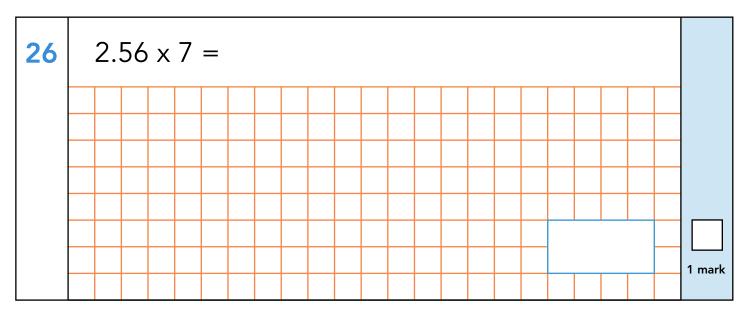


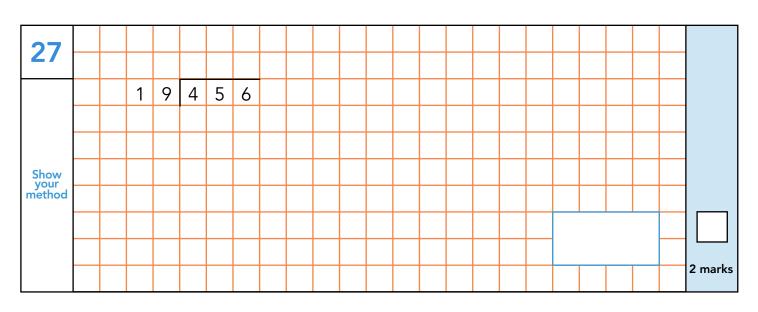


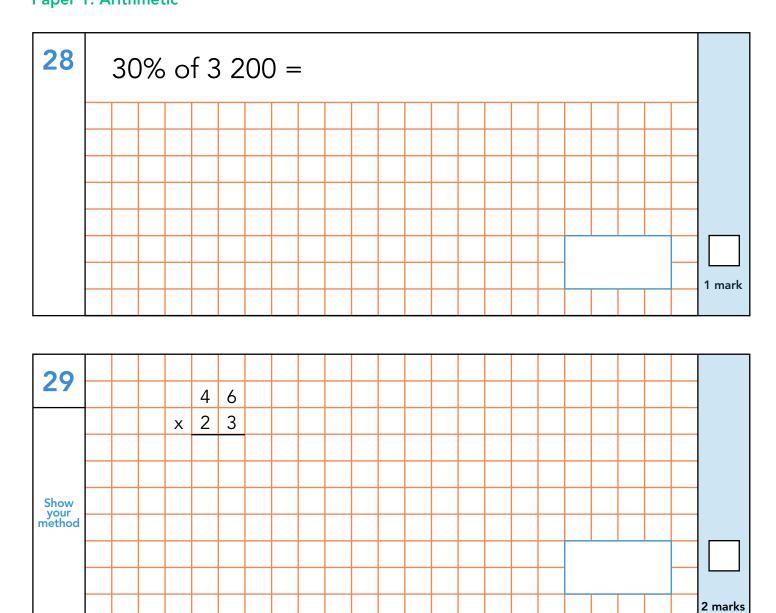


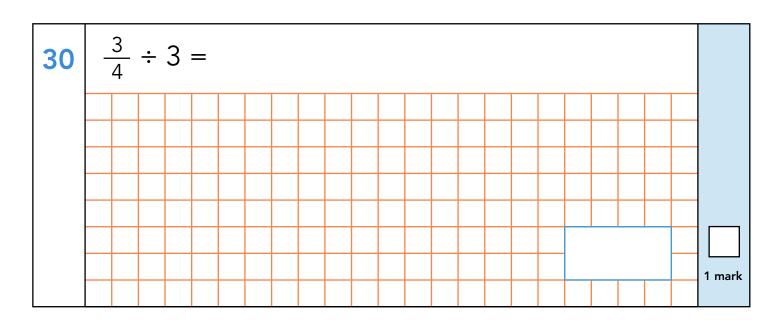


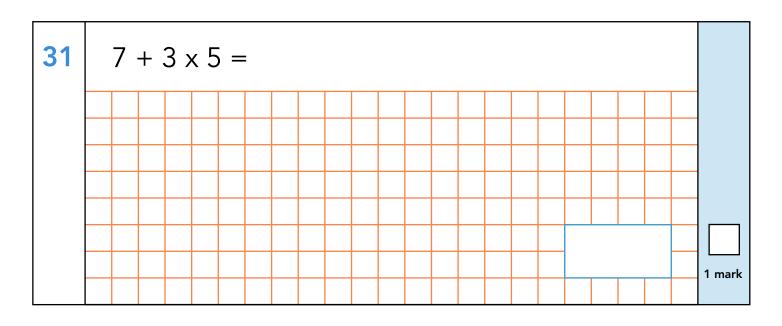


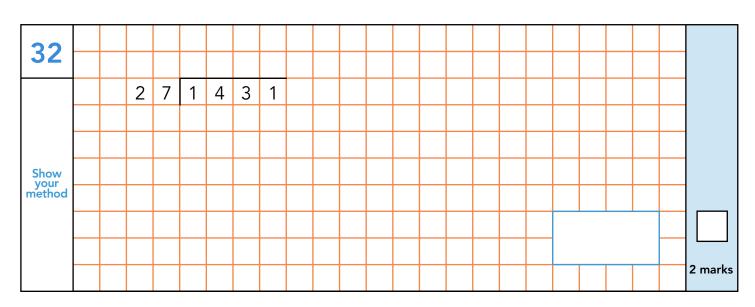


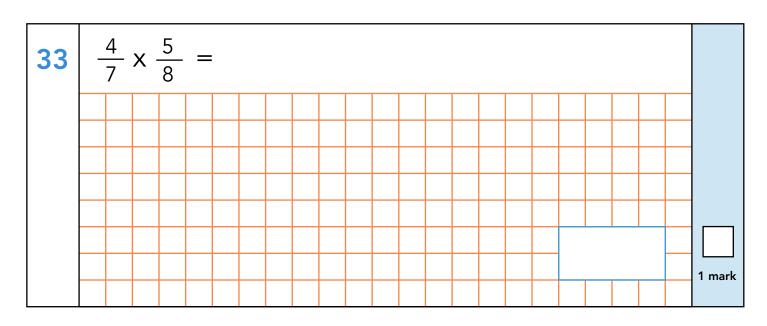




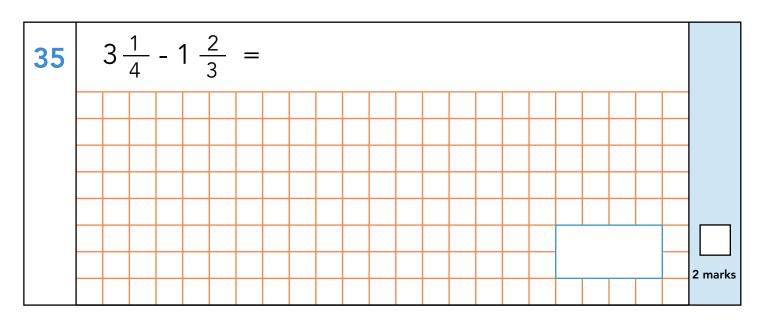


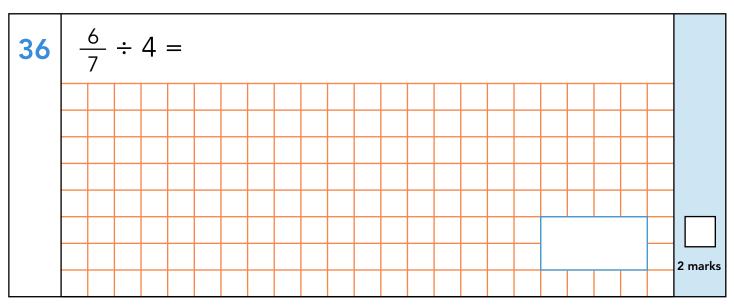






34														
34			5	2	0	8								
		х			7	6								
Show your method														
method														
														1 mark





The instructions and principles of this mark scheme closely follow the guidance in the 2016 national curriculum tests. We have deliberately not set a limited time for the test paper as a teacher may want to vary it according to the standard individual children are working at.

The national curriculum test allows 30 minutes to complete this test.

Q	Requirement	Mark	Additional guidance	Content Domain Ref	Requirement
1	88	1m		5C6a	Calculations
2	3835	1m		3N2b	Number
3	0	1m		4C6b	Calculations
4	734	1m		3C1	Calculations
5	8	1m		3C7	Calculations
6	75 598	1m		5C2	Calculations
7	6169	1m		4C2	Calculations
8	140	1m		4C6b	Calculations
9	8.7	1m		4F8	Fractions
10	121	1m		5C7b	Calculations
11	-9	1m		6N6	Number
12	13	1m	Do not accept 9	3C7	Calculations
13	2.63	1m		5C6b	Calculations
14	27.802	1m		5F8	Fractions
15	12 000	1m		5C6a	Calculations
16	2 397 562	1m		5C2	Calculations
17	5/7	1m	Accept equivalence	4F4	Fractions
18	30 700	1m	·	6F9a	Fractions
19	700	1m		5C6a	Calculations
20	14.695	1m		5F8	Fractions

Q	Requirement	Mark	Additional guidance	Content Domain Ref	Requirement	
21 22 23 24 25 26 27	Requirement 9 999 899 3/12 or 1/4 81 3 12/9 or 4 1/3 200 17.92 Award TWO marks for the correct answer of 24 If the answer is incorrect, award ONE mark for the formal methods of division with no more than ONE arithmetical error, i.e. • long division algorithm, e.g. 1 9 4 5 6 - 3 8 0 (20 x 19) OR - 7 4 (error)(4 x 19) • short division algorithm, e.g. 2 3 r 18 (error) 1 9 4 5 76	Mark 1m 1m 1m 1m 1m 2m 2m	Accept equivalence Accept equivalence 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.		Requirement Calculations Fractions Calculations Fractions Fractions Fractions Fractions	

Q	Requirement	Mark	Additional guidance	Content Domain Ref	Requirement
28	960	1m		6R2	Ratio
29	Award TWO marks for the correct answer of 1 058 If the answer is incorrect, award ONE mark for the formal method of long multiplication with no more than ONE arithmetical error, e.g. $ \begin{array}{c} 4 & 6 \\ \times & 2 & 3 \\ 1 & 3 & 8 \\ 9 & 2 & 0 \\ \hline 1 & 0 & 4 & 8 \\ \end{array} $ OR + $ \begin{array}{c} 4 & 6 \\ \times & 2 & 3 \\ \hline 1 & 3 & 6 \\ \hline 9 & 2 & 0 \\ \hline 1 & 0 & 4 & 6 \end{array} $	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: 4 6 x 2 3 1 3 8 9 2 (place value error)	5C7a	Calculations
30	1/4	1m	Accept equivalence	6F5b	Fractions
31	22	1m		6C9	Calculations

Q	Requirement	Mark	Additional guidance	Content Domain Ref	Requirement	
32	Award TWO marks for the correct answer of 53 If the answer is incorrect, award ONE mark for the formal methods of division with no more than ONE arithmetical error, i.e. • long division algorithm, e.g. 2 7 1 4 3 1	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.	6C7b	Calculations	
33	5/14	1m	Accept 20/50 or equivalent fraction	6F5a	Fractions	

Q	Requirement	Mark	Additional guidance	Content Domain Ref	Requirement
34	Award TWO marks for the correct answer of 395 808	1m	Working must be carried through to reach a final answer for the award of ONE mark.	6C7a	Calculations
	If the answer is incorrect, award ONE mark for the formal method of long multiplication with no more than ONE arithmetical error, e.g. $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1m	Do not award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens:		
35	1 7/12	Up to		6F4	Fractions
36	3/14	2m		6F5b	Fractions



Third Space Learning

Year 6 Maths SATs Foundation

Prepare early for SATs with 1-to-1 tuition starting in September.

Our 1-to-1 Maths specialists will work with your target pupils to plug gaps, secure key concepts and develop problem solving skills.

Find out more here: http://bit.ly/Y6Maths

"Third Space has done wonders for pupils' attitudes towards maths - they look forward to their sessions. Also the fact I can pick and choose quality sessions is a huge asset."

Lisa Graham, Deputy Head, St Hughes C-of-E Primary

"My tutor understands when I don't get things right. She helps me through at a steady pace and always believes I can do it:)"

Millie, Year 5, Worcester