KS2 SATs Paper

Arithmetic Practice Paper 1

Pack 3



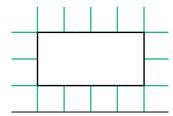
First name	
Last name	
Class	
School	
Score	

Instructions

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

Questions and answers

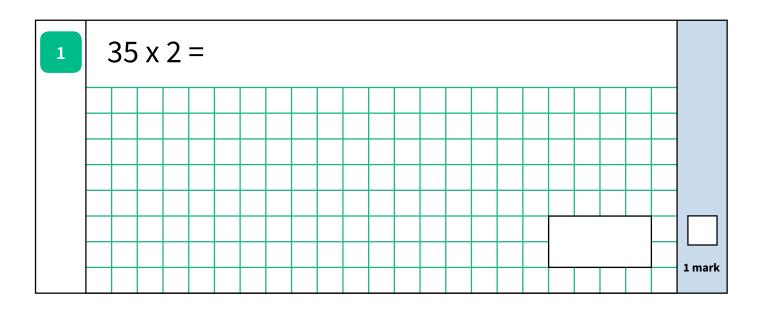
- Work as quickly and as carefully as you can.
- Put your answer in the box for each question.

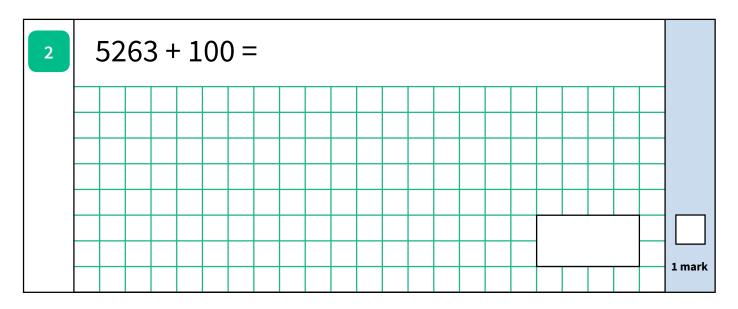


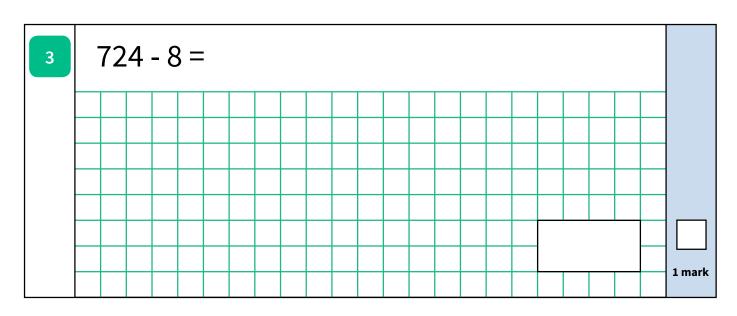
- All answers should be given as a single value.
- For questions expressed as common fractions or mixed numbers, you should give your answers as common fractions or mixed numbers.
- If you cannot do a question, **go on to the next one**. You can come back to it later, if you have time.
- If you finish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

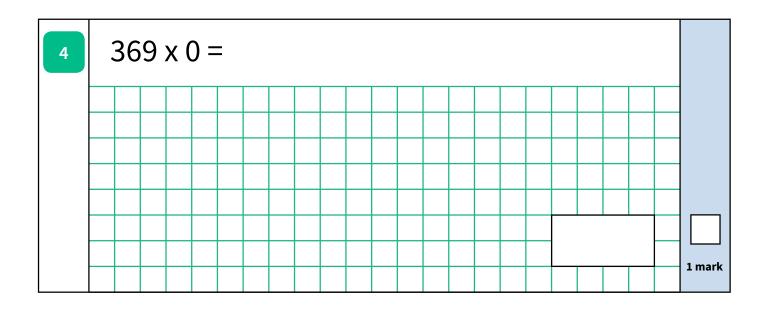
Marks

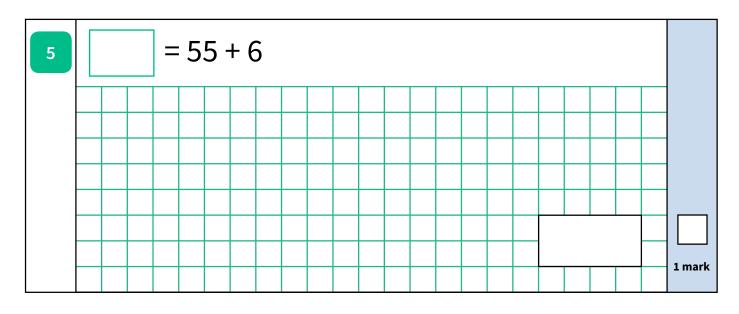
- The number under each box at the side of the page tells you the maximum number of marks for each question.
- In this test, long division and long multiplication questions are worth TWO marks each. You will be awarded TWO marks for a correct answer. You may get ONE mark for showing a formal method.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

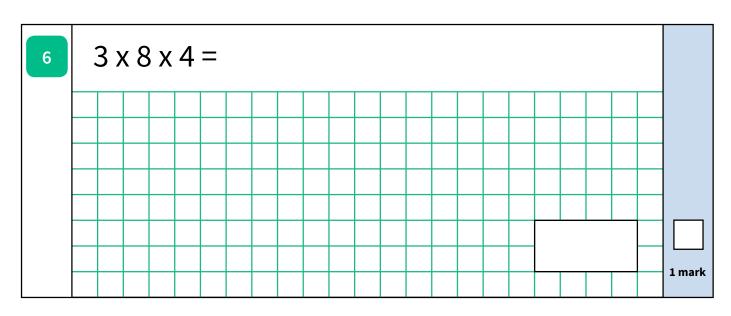


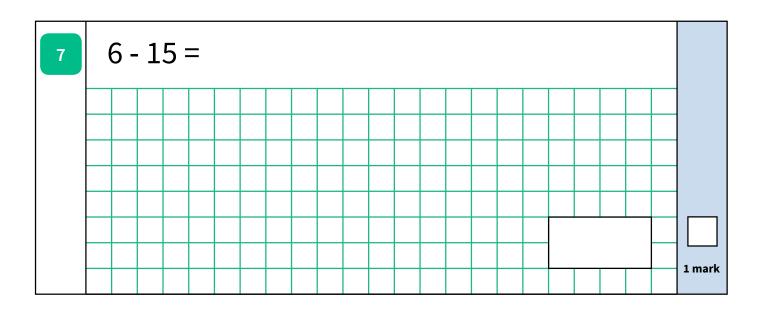


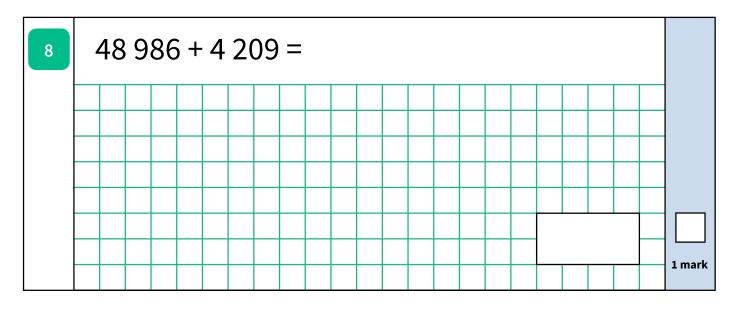


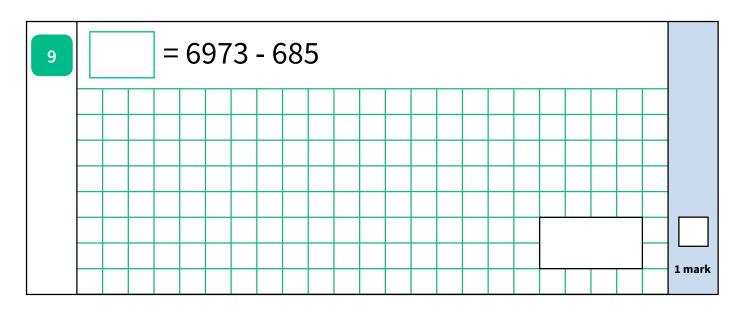


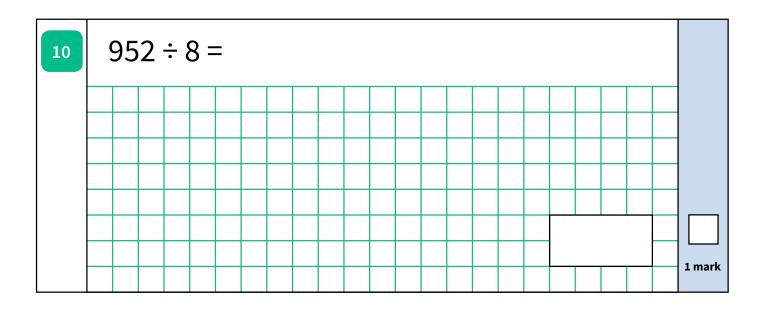


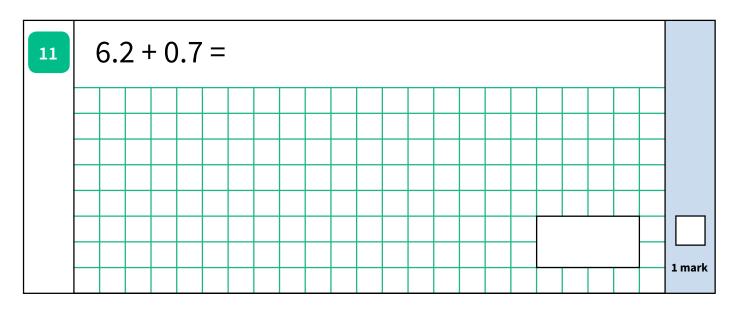


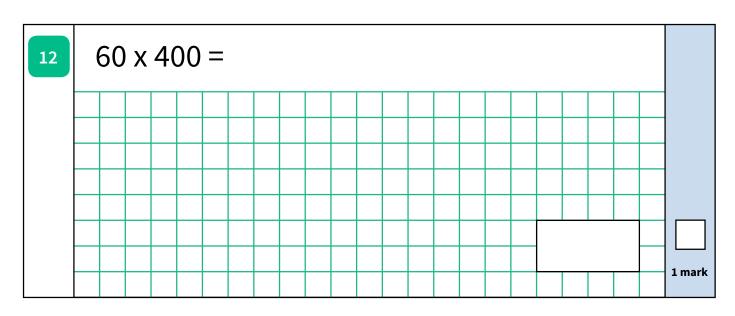


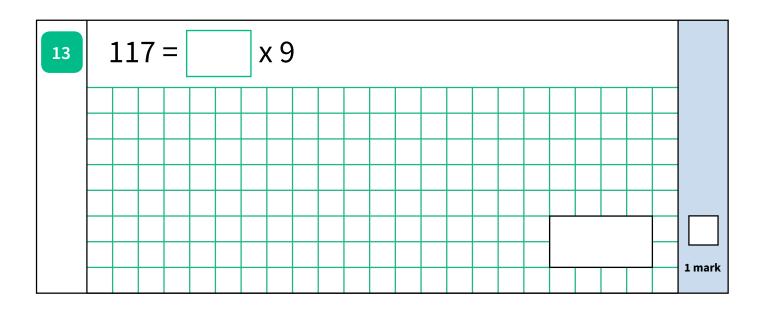


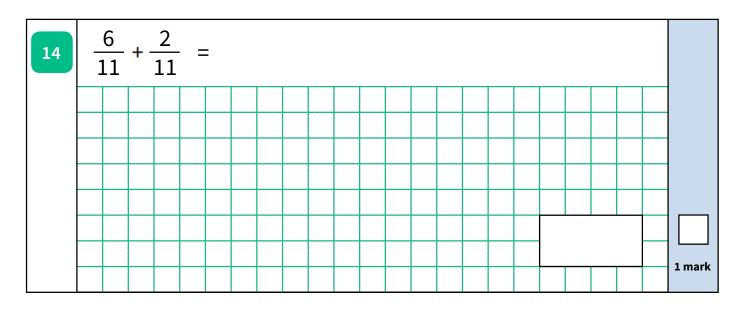


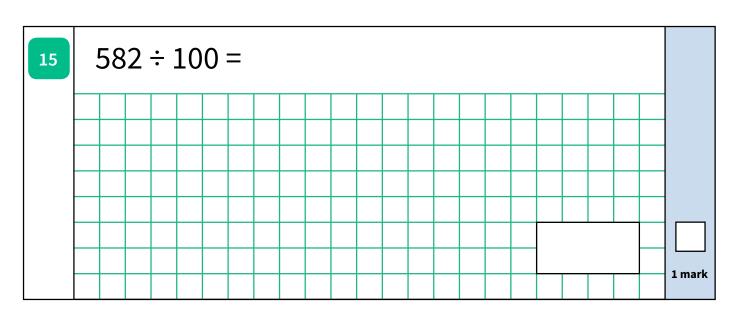


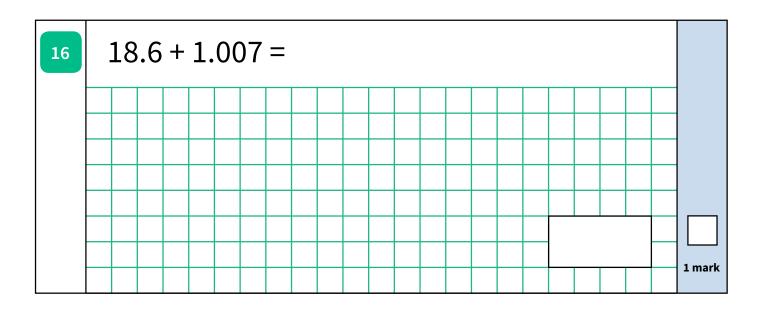


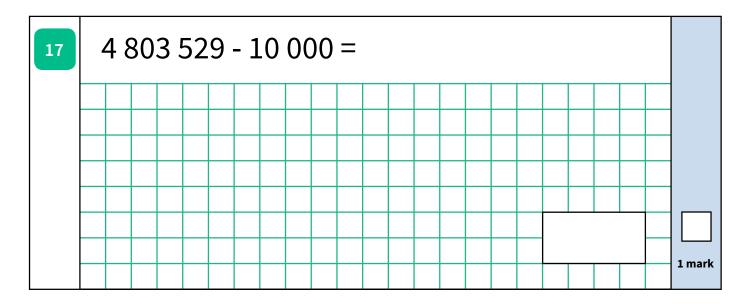


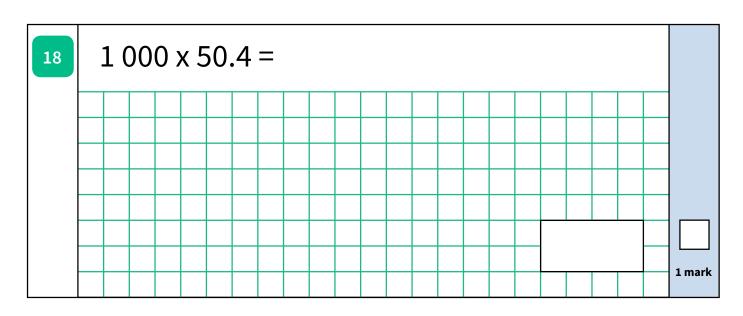


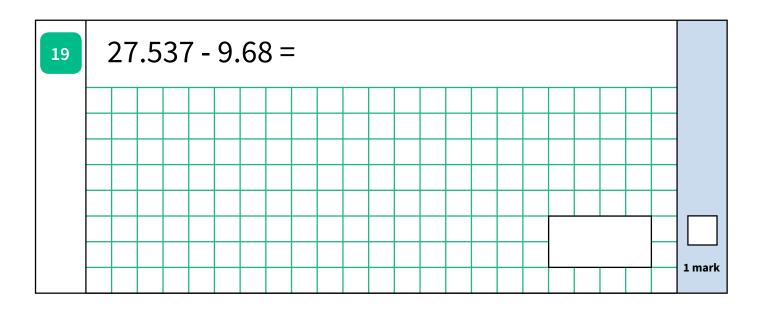


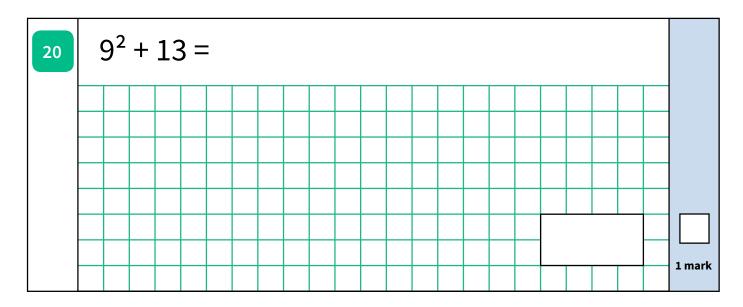


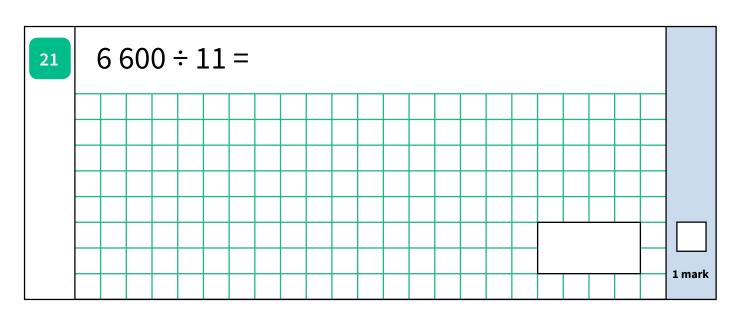


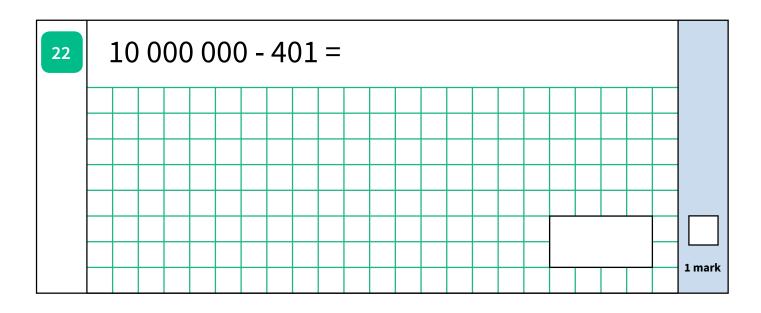


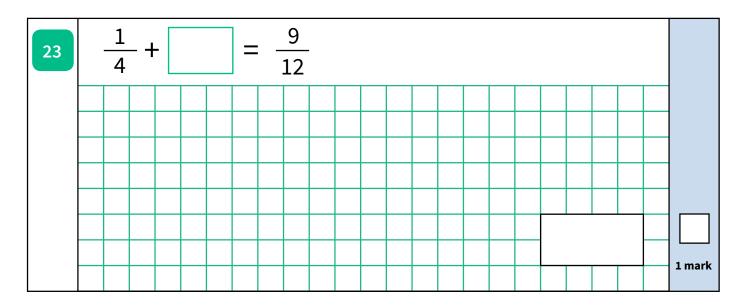


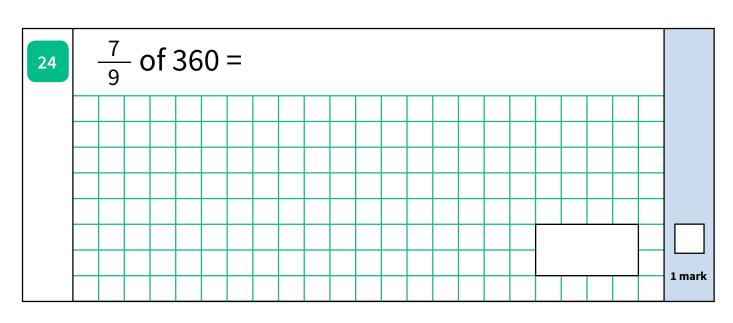


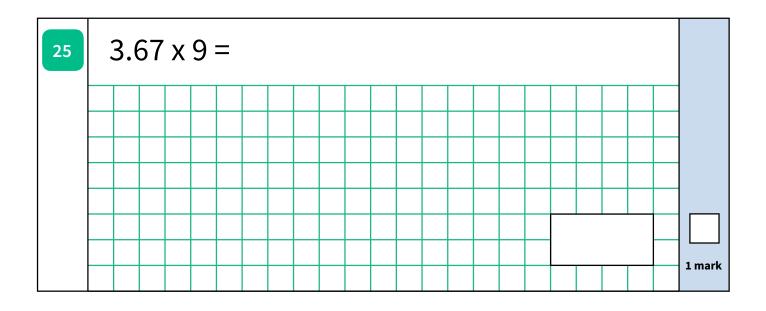


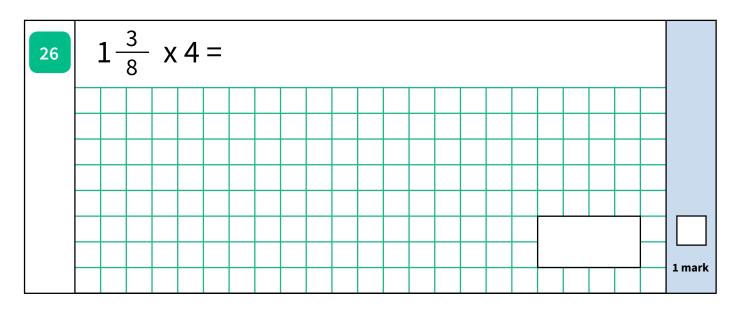


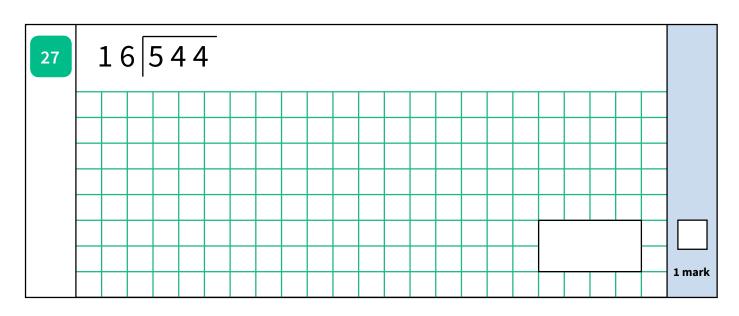


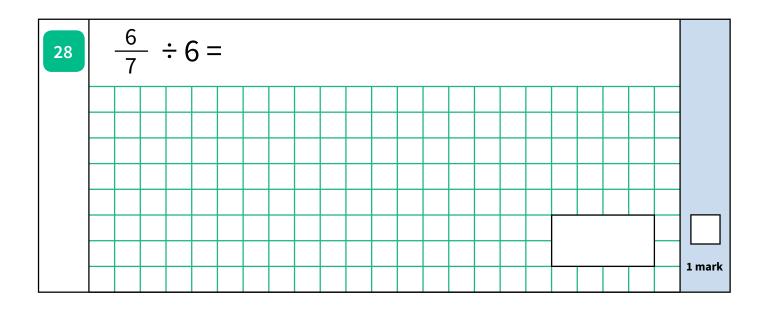


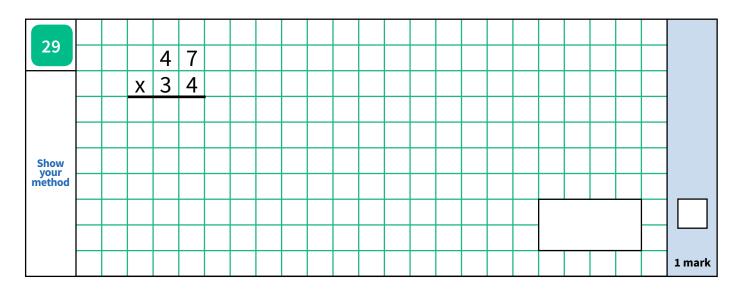


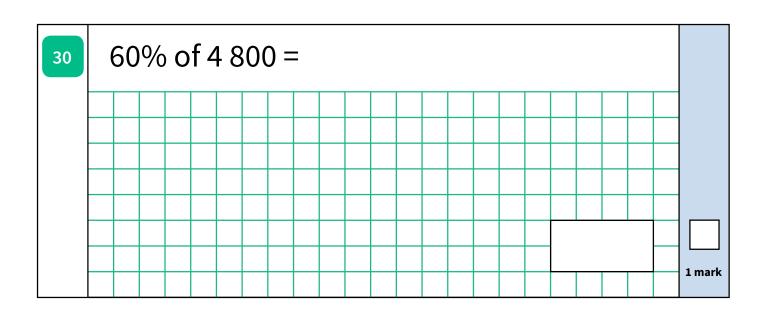


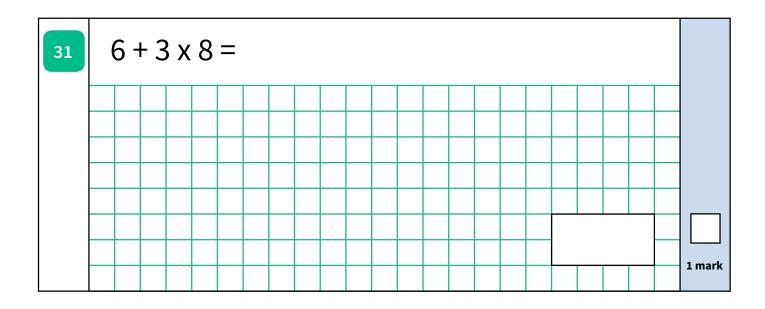


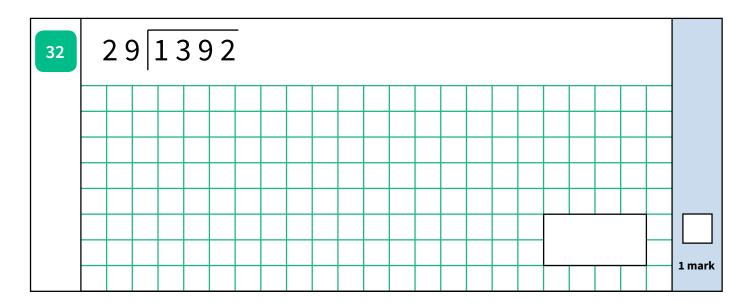


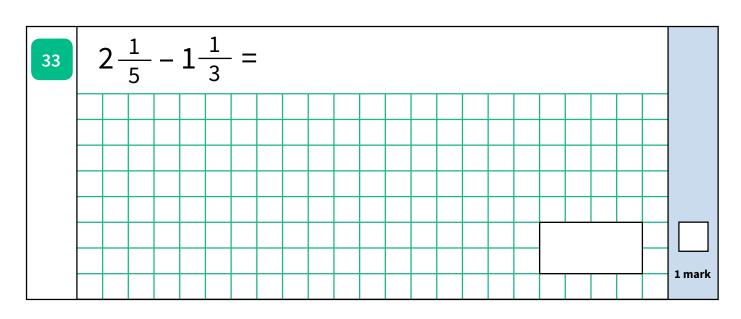




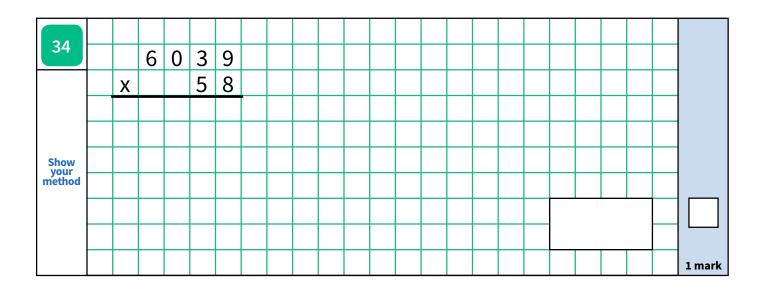


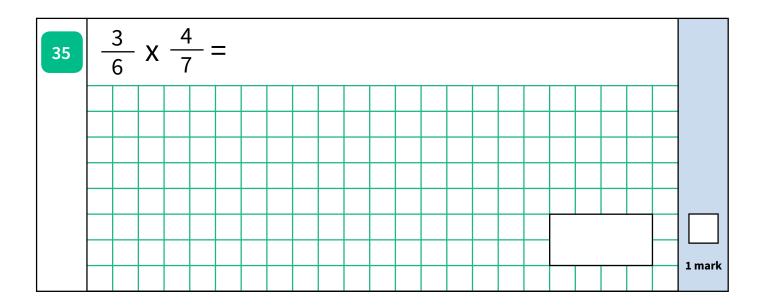


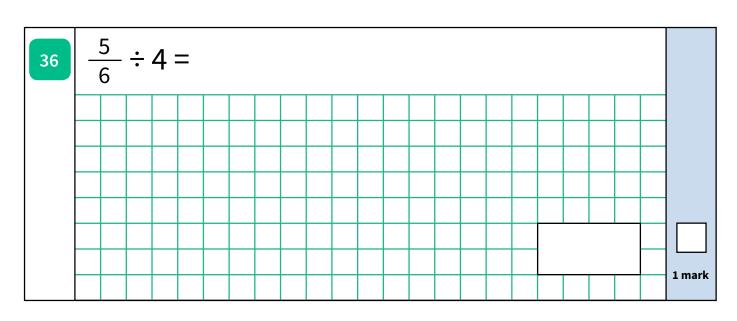




KS2 SATs Arithmetic Paper 1 - Pack 3







Sample SATs Arithmetic Paper Mark Scheme

Q	Requirement	Mark	Additional guidance	Content Domain Ref.	NC Strand
1	70	1m		5C6a	Calculations
2	5363	1m		3N2b	Number
3	716	1m		3C1	Calculations
4	0	1m		4C6b	Calculations
5	61	1m		3C7	Calculations
6	96	1m		4C6b	Calculations
7	-9	1m	Do not accept 9	6N6	Number
8	53 195	1m		5C2	Calculations
9	6288	1m		4C2	Calculations
10	119	1m		5C7b	Calculations
11	6.9	1m		4F8	Fractions
12	24 000	1m		5C6a	Calculations
13	13	1m		3C7	Calculations
14	8/11	1m	Accept equivalence	4F4	Fractions
15	5.82	1m		5C6b	Calculations
16	19.607	1m		5F8	Fractions
17	4 793 529	1m		5C2	Calculations
18	50 400	1m		6F9a	Fractions
19	17.857	1m		5F8	Fractions
20	94	1m		6C9	Calculations
21	600	1m		5C6a	Calculations
22	9 999 599	1m		5C2	Calculations
23	6/12 or 1/2 or 2/4	1m	Accept equivalence	5F4	Fractions
24	280	1m		4F10a	Fractions
25	33.03	1m		6F9b	Fractions
26	4 ¹² / ₈ or 5 ¹ / ₂	1m	Accept equivalence	5F5	Fractions
27	Award TWO marks for the correct answer of 34. If the answer is incorrect, award ONE mark for the formal methods	Up to 2m	Working must be carried through to reach a final answer for the award of ONE mark.	6C7b	Fractions

Q	Requirement	Mark	Additional guidance	Content Domain Ref.	NC Strand
	of division with no more than ONE arithmetical error, i.e. • long division algorithm, e.g. 3 4 r 2 16 5 4 4 - 4 8 0 (30 x 16) - 6 2 (error) (4 x 16) - 2 OR 3 4 r 10 16 5 4 4 - 4 8 (3 x 16) - 7 4 (error) - 6 4 (4 x 16) - 1 0 • short division algorithm, e.g. 3 3 r 14 (error) 16 5 4 64		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.		
28	1/7	1m	Accept equivalence	6F5b	Fractions
29	Award TWO marks for the correct answer of 1 598 If the answer is incorrect, award ONE mark for the formal method of long multiplication with no more than ONE arithmetical error, e.g.	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:	5C7a	Calculations

Q	Requirement	Mark	Additional guidance	Content Domain Ref.	NC Strand
	4 7 x 3 4 1 8 8 + 1 4 1 0 1 5 9 0 (error) OR 4 7 x 3 4 1 8 6 (error) + 1 4 1 0 1 5 9 6				
30	2880	1m		6R2	Ratio
31	30	1m		6C9	Calculations
32	Award TWO marks for the correct answer of 48 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. 47 r 27 29 1392 -1160 (40 x 29) 230 (error) -203 (4 x 16) OR	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

47 r6 29 13 92 -116 (4×29) 232 -226 (error) (8×29) • short division algorithm, e.g. 4 6 r 18 29 13 9 192 (error) 33 13/15 1m 6F4 34 Award TWO marks for the correct answer of 350 262 Up to 2m ONE mark. If the answer is incorrect, award ONE mark for the	Fractions Calculations
Award TWO marks for the correct answer of 350 262 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:	
for the correct answer of 350 262 If the answer is incorrect, award 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:	Calculations
formal method of long multiplication with no more than ONE arithmetical error, e.g. 6039 x 58 48312 +301950 349262 (error) OR 6039 x 58 48012 (error) +301950 349962	
35 6/21 1m Accept 12/42 or equivalent fraction 6F5a	Fractions
36 5/24 1m Accept equivalence 6F5b	Fractions