KS2 SATs Paper

Arithmetic Practice Paper 1

Pack 4

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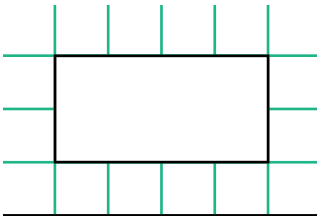
First name	
Last name	
Class	
School	
Score	

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**.

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1 $33 \times 2 =$

1 mark

2 $683 - 7 =$

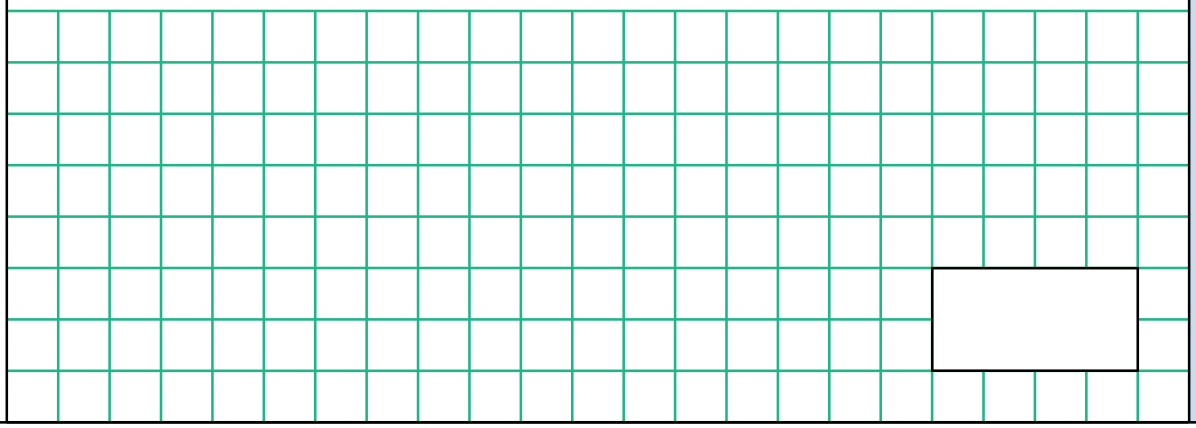
1 mark

3 $4167 + 100 =$

1 mark

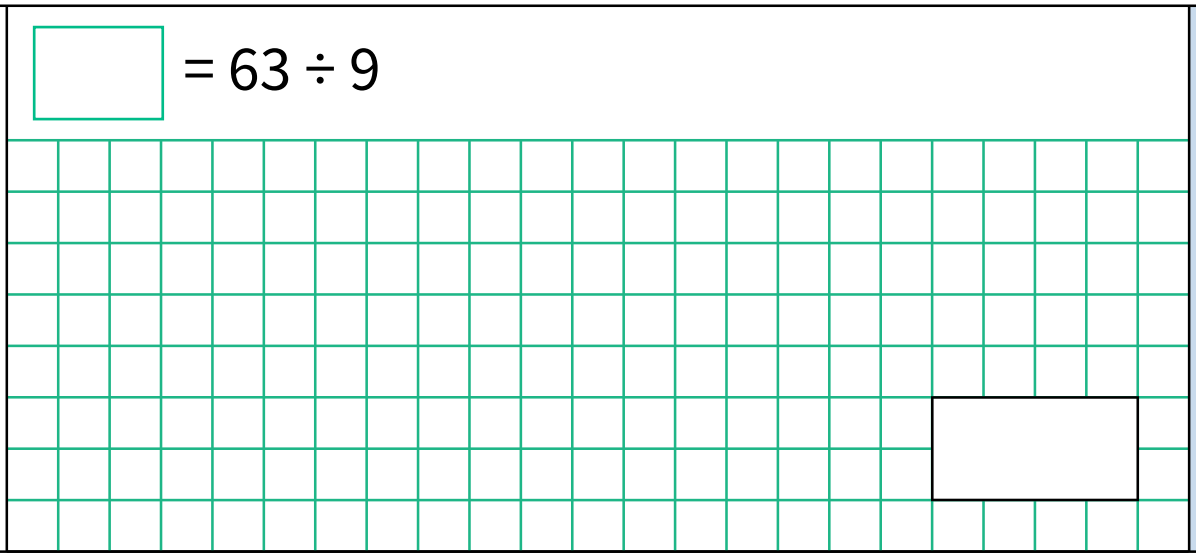
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4 $294 \times 0 =$



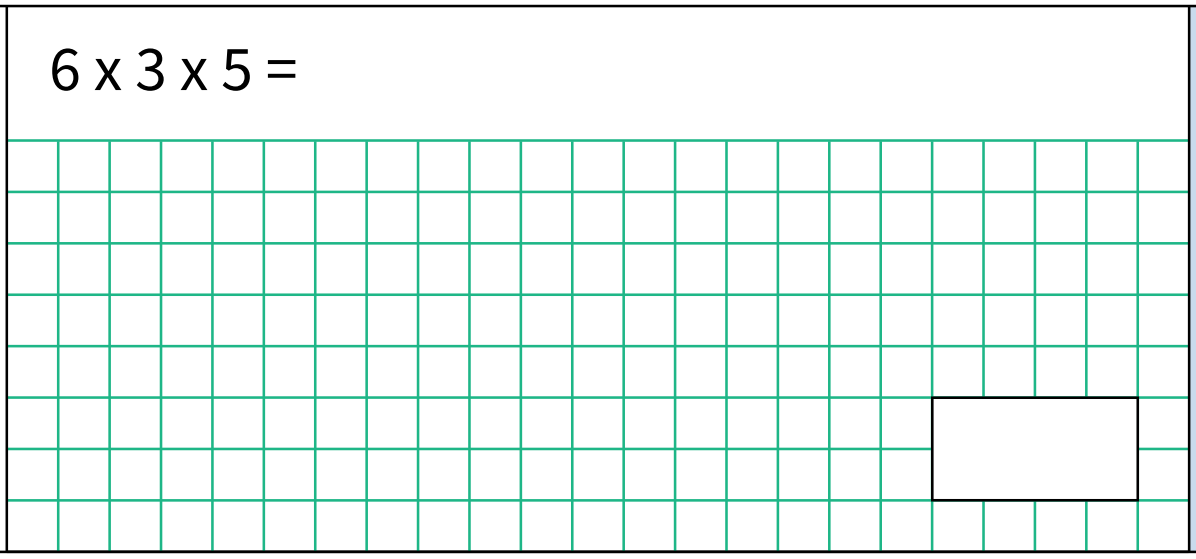
1 mark

5 $\square = 63 \div 9$



1 mark

6 $6 \times 3 \times 5 =$



1 mark

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7 59 897 + 5 308 =

1 mark

8 ☐ = 7861 - 783

1 mark

9 4 - 13 =

1 mark

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10 $7.3 + 0.6 =$

1 mark

11 $791 \div 7 =$

1 mark

12 $631 \div 100 =$

1 mark

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13 $21.7 + 2.004 =$

1 mark

14 $112 = \square \times 8$

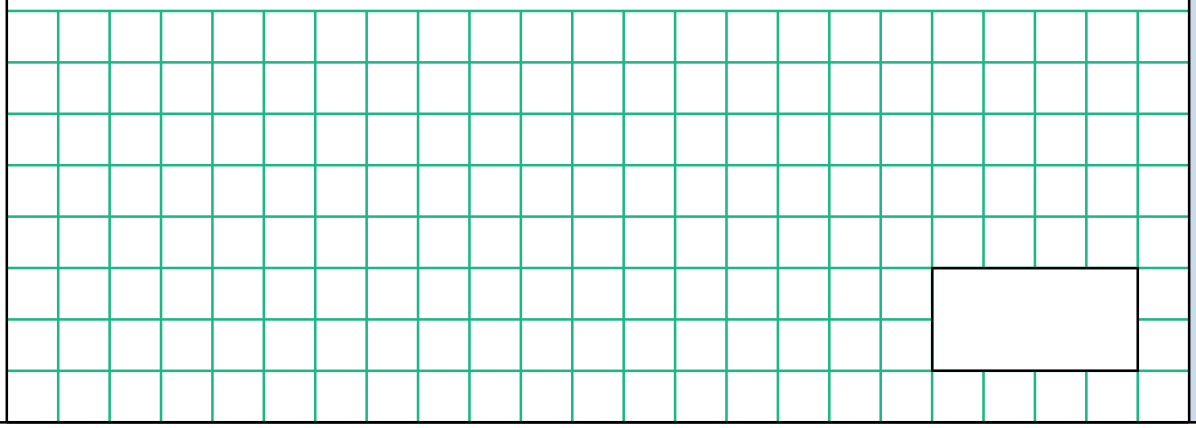
1 mark

15 $\frac{3}{9} + \frac{2}{9} =$

1 mark

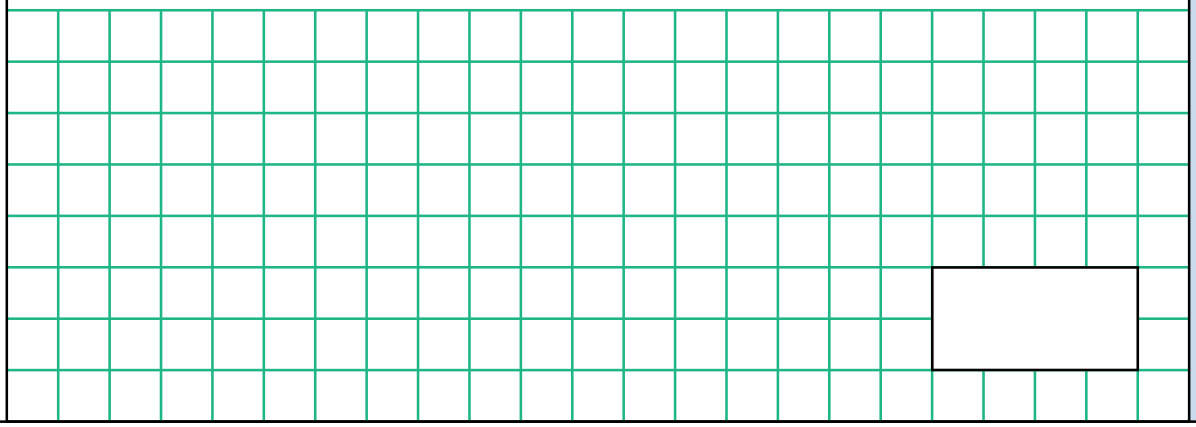
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16 $30 \times 600 =$



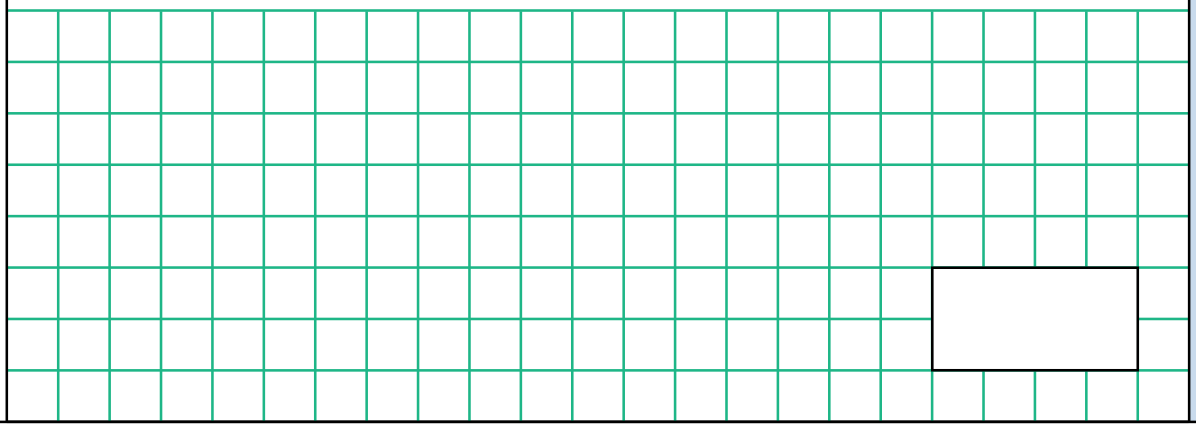
1 mark

17 $3\,504\,617 - 10\,000 =$



1 mark

18 $\frac{1}{4} + \square = \frac{7}{8}$



1 mark

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19 $3\,300 \div 11 =$

1 mark

20 $1\,000 \times 40.6 =$

1 mark

21 $17.426 - 8.75 =$

1 mark

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22 $10\,000\,000 - 301 =$

1 mark

23 $\frac{5}{8}$ of $320 =$

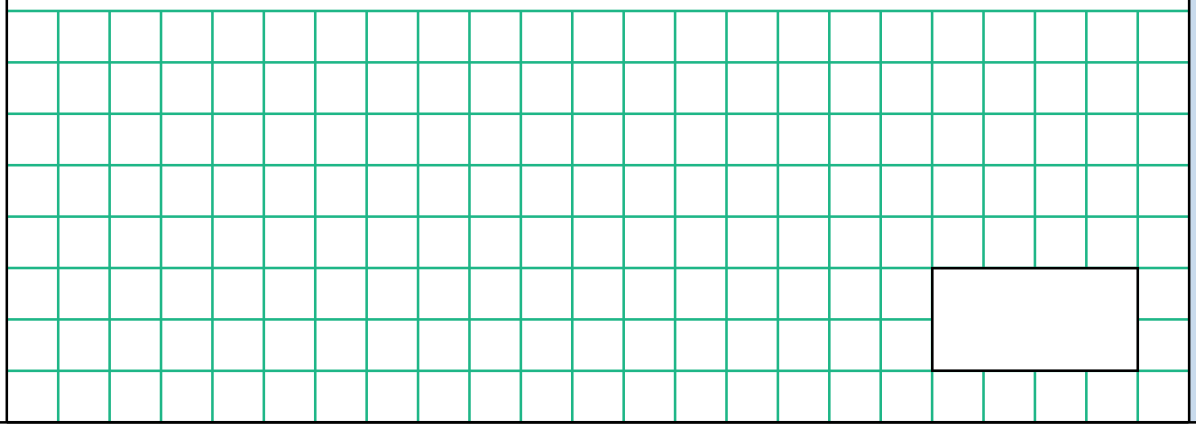
1 mark

24 $4.69 \times 6 =$

1 mark

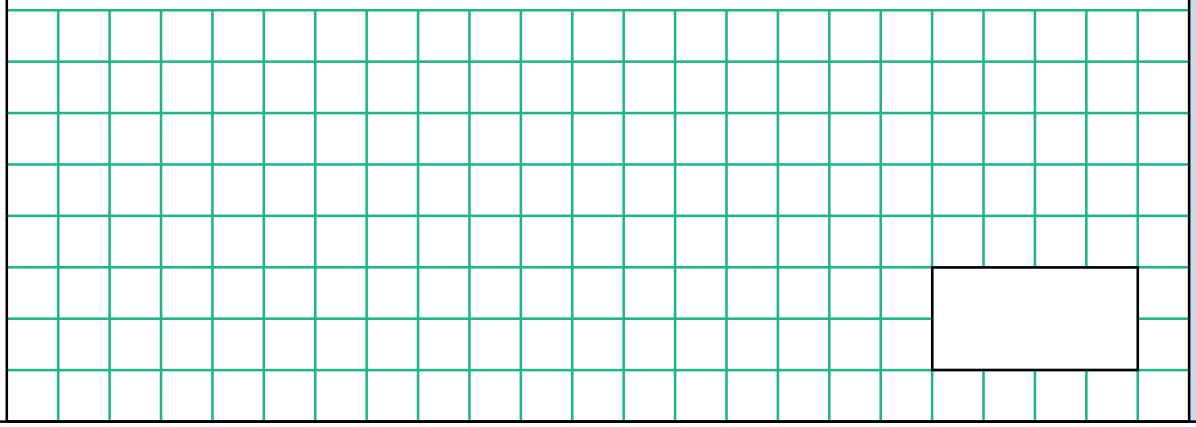
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25 $7^2 + 14 =$



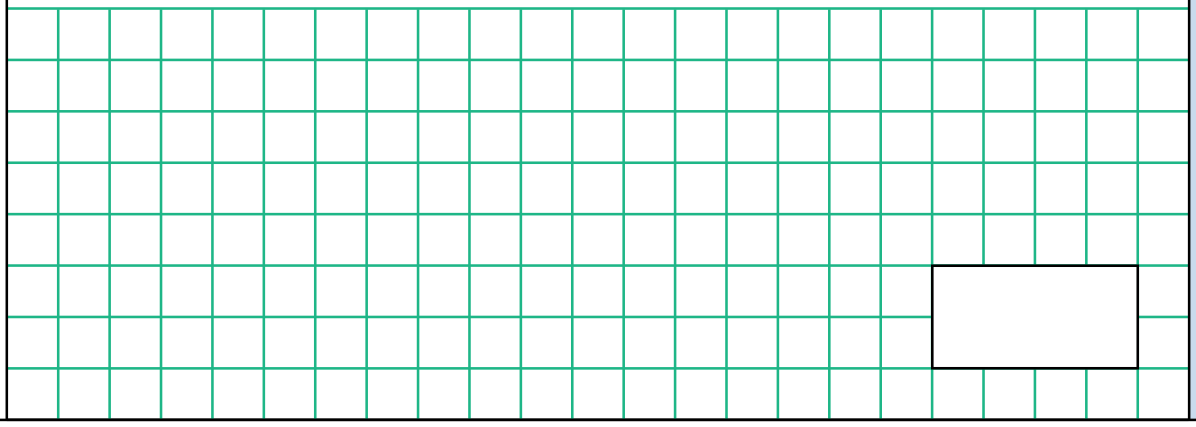
1 mark

26 $2\frac{3}{5} \times 3 =$



1 mark

27 $17\overline{)459}$



Up to 2 marks

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28 40% of 3 700 =

1 mark

29 39 x 24

Show your method

Up to 2 marks

30 8 + 5 x 4 =

1 mark

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31 $\frac{5}{8} \div 5 =$

1 mark

32 $33\overline{)1848}$

Up to 2 marks

33 $\frac{5}{8} \times \frac{4}{6} =$

1 mark

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34

Show your method

	4	9	0	7
x			6	9

Up to 2 marks

35

$\frac{2}{3} \div 3 =$

1 mark

36

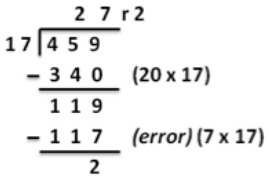
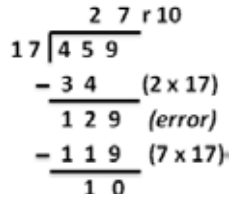
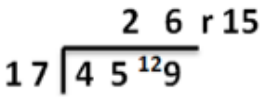
$3\frac{1}{3} - 1\frac{1}{2} =$

1 mark

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Sample SATs Arithmetic Paper Mark Scheme

Q	Requirement	Mark	Additional guidance	Content Domain Ref.	NC Strand
1	66	1m		5C6a	Calculations
2	676	1m		3C1	Calculations
3	4267	1m		3N2b	Number
4	0	1m		4C6b	Calculations
5	7	1m		3C7	Calculations
6	90	1m		4C6b	Calculations
7	65 205	1m		5C2	Calculations
8	7 078	1m		4C2	Calculations
9	-9	1m	**Do not** accept 9	6N6	Number
10	7.9	1m		4F8	Fractions
11	113	1m		5C7b	Calculations
12	6.31	1m		5C6b	Calculations
13	23.704	1m		5F8	Fractions
14	14	1m		3C7	Calculations
15	$\frac{5}{9}$	1m	**Accept** equivalence	4F4	Fractions
16	18 000	1m		5C6a	Calculations
17	3 494 617	1m		5C2	Calculations
18	$\frac{5}{8}$	1m	**Accept** equivalence	5F4	Fractions
19	300	1m		5C6a	Calculations
20	40 600	1m		6F9a	Fractions
21	8.676	1m		5F8	Fractions
22	9 999 699	1m		5C2	Calculations
23	200	1m		4F10a	Fractions
24	28.14	1m		6F9b	Fractions
25	63	1m		6C9	Calculations
26	6 $\frac{5}{5}$ or 7 $\frac{4}{5}$	1m	**Accept** equivalence	5F5	Fractions
27	Award **TWO** marks for the correct answer of 27. If the answer is incorrect, award **ONE** mark for the formal methods of division	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
	with no more than **ONE** arithmetical error, i.e. • long division algorithm, e.g.  OR  • short division algorithm, e.g. 		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	1480	1m		6R2	Ratio
29	Award **TWO** marks for the correct answer of 936 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
	39 x 24 156 + 780 926 *(error)* OR 39 x 24 154 *(error)* + 780 934				
30	28	1m		6C9	Calculations
31	⅛	1m	**Accept** equivalence	6F5b	Fractions
32	Award **TWO** marks for the correct answer of 56 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. 56 r 12 33 ⟌ 1848 −1650 (50 x 33) 0210 *(error)* − 198 (6 x 33) 12	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

Q	Requirement	Mark	Additional guidance	Content Domain Ref.	NC Strand
	5 6 r 2 33 ⟌ 1 8 4 8 − 1 6 5 (5 x 33) 0 1 9 8 − 1 9 6 *(error)* (6 x 33) 2 • short division algorithm, e.g. 5 5 r 13 33 ⟌ 1 8 4 17 8 *(error)*				
33	5/12	1m	**Accept** 20/48 or 10/24 or equivalent fraction	6F4	Fractions
34	Award **TWO** marks for the correct answer of 338 583 If the answer is incorrect, award **ONE** mark for the formal method of long multiplication with no more than ONE arithmetical error, e.g. 4 9 0 7 x 6 9 4 4 1 6 3 + 2 9 4 4 2 0 *(error)* 2 3 8 5 8 3 OR 4 9 0 7 x 6 9 4 4 1 0 3 *(error)* + 2 9 4 4 2 0 3 3 8 5 2 3	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 9 0 7 x 6 9 4 4 1 6 3 + 2 9 4 4 2 *(place value error)* 7 3 6 0 5	6C7a	Calculations
35	2/9	1m	**Accept** equivalence	6F5b	Fractions
36	1 5/6	1m	**Accept** 1 1/6 or equivalent fraction	6F4	Fractions