## THIRD SPACE <br> LEARNING

# Key Stage 2 SATs <br> Paper 1: Arithmetic Pack 2 

Mathematics Practice Test and Mark Scheme

Name:
School:
$\qquad$ Class:
Score:
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## 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.

Key Stage 2 SATs Mathematics Practice test | Paper 1: Arithmetic

## Questions

$144 \times 2=$

$2 \quad 3,735+100=$

$3 \quad 459 \times 0=$


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$6 \quad 69,997+5,601=$


1 mark

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$8 \quad 5 \times 7 \times 4=$


1 mark
$9 \quad 8.4+0.3=$


1 mark

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$113-12=$


1 mark

| 12 | $91=$ |  |  | $\times 7$ |  |  |  |  |  |  |  |  |
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$14 \quad 26.8+1.002=$


1 mark


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$16 \quad 2,407,562-10,000=$


1 mark
$17 \quad \frac{3}{7}+\frac{2}{7}=$


1 mark
$18 \quad 1,000 \times 30.7=$


1 mark

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$19 \quad 7,700 \div 11=$

$20 \quad 24.325-9.63=$


1 mark

21 10,000,000-101=


1 mark

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Key Stage 2 SATs Mathematics Practice test | Paper 1: Arithmetic

| 25 | $\frac{5}{6}$ of $240=$ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Key Stage 2 SATs Mathematics Practice test | Paper 1: Arithmetic

| 28 | $30 \%$ of $3,200=$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
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Key Stage 2 SATs Mathematics Practice test | Paper 1: Arithmetic

| 31 | $7+3 \times 5=$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
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$33 \quad \frac{4}{7} \times \frac{5}{8}=$



1 mark

Key Stage 2 SATs Mathematics Practice test | Paper 1: Arithmetic


Key Stage 2 SATs Mathematics Practice test | Paper 1: Arithmetic | Answers

## Mark Scheme

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.

## Key Stage 2 SATs Mathematics Practice test | Paper 1: Arithmetic | Answers

## Answers

| Question <br> Number | Requirement | Mark | Additional guidance | Content <br> Domain Ref | NC strand |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | 88 | 1m |  | 5C6a | Calculations |
| 2 | 3,835 | 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 | 6,169 | 1m |  | 4C2 | Calculations |
| 8 | 140 | 1m |  | 4C6b | Calculations |
| 9 | 8.7 | 1m |  | $5 f 10$ | Fractions |
| 10 | 121 | 1m |  | 5C7b | Calculations |

Key Stage 2 SATs Mathematics Practice test | Paper 1: Arithmetic | Answers

| Question <br> Number | Requirement | Mark | Additional guidance | Content <br> Domain Ref | NC strand |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 11 | -9 | 1 m |  | 6N6 | Number |
| 12 | 13 | 1 m | Do not accept 9 | 3C7 | Calculations |
| 13 | 2.63 | 1 m |  | 5C6b | Calculations |
| 14 | 27.802 | 1 m |  | 5F10 | Fractions |
| 15 | 12,000 | 1 m |  | 5C6a | Calculations |
| 16 | 2,397,562 | 1 m |  | 5C2 | Calculations |
| 17 | $\frac{5}{7}$ | 1 m | Accept equivalence | 4F4 | Fractions |
| 18 | 30,700 | 1 m |  | 6F9a | Fractions |
| 19 | 700 | 1 m |  | 5C6a | Calculations |
| 20 | 14.695 | 1 m |  | 5F10 | Fractions |
| 21 | 9,999,899 | 1 m |  | 5C2 | Calculations |
| 22 | $\frac{3}{12}$ or $\frac{1}{4}$ | 1 m | Accept equivalence | 5F4 | Fractions |

Key Stage 2 SATs Mathematics Practice test | Paper 1: Arithmetic | Answers

| Question Number | Requirement | Mark | Additional guidance | Content Domain Ref | NC strand |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 23 | 81 | 1 m |  | 6 C 9 | Calculations |
| 24 | $3 \frac{12}{9}$ or $4 \frac{1}{3}$ | 1 m | Accept equivalence | 5F5 | Fractions |
| 25 | 200 | 1 m |  | 4F10a | Fractions |
| 26 | 17.92 | 1 m |  | 6F9b | Fractions |
| 27 | 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. <br> - long division algorithm, e.g. <br> - short division algorithm, e.g. $1 9 \longdiv { 4 5 ^ { 7 6 } } \text { r } 18$ | 1 m | Working must be carried through to reach a final answer for the award of ONE mark. <br> 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 | Fractions |

Key Stage 2 SATs Mathematics Practice test | Paper 1: Arithmetic | Answers

| Question <br> Number | Requirement | Mark | Additional guidance | Content Domain Ref | NC strand |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 28 | 960 | 1 m |  | 6R2 | Ratio |
| 29 | Award TWO marks for the correct answer of 1 058 <br> 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 $2 m$ | Working must be carried through to reach a final answer for the award of ONE mark. <br> Do not award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens: $\begin{array}{r} 46 \\ \times 23 \\ +\quad 138 \\ +\quad 92 \text { (place value error) } \end{array}$ | 5C7a | Calculations |
| 30 | $\frac{1}{4}$ | 1 m | Accept equivalence | 6F5b | Fractions |
| 31 | 22 | 1 m |  | 6C9 | Calculations |

Key Stage 2 SATs Mathematics Practice test | Paper 1: Arithmetic | Answers

| Question Number | Requirement | Mark | Additional guidance | Content Domain Ref | NC strand |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 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. <br> - long division algorithm, e.g. <br> - short division algorithm, e.g. $53 r 10$ $2 7 \longdiv { 1 4 3 ^ { 9 } 1 \text { (error) } }$ | Up to $2 m$ | Working must be carried through to reach a final answer for the award of ONE mark. <br> 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 | $\frac{5}{14}$ | Up to 2m | Accept $\frac{20}{50}$ or equivalent fraction | 6F5a | Fractions |

Key Stage 2 SATs Mathematics Practice test | Paper 1: Arithmetic | Answers

| Question <br> Number | Requirement | Mark | Additional guidance | Content <br> Domain Ref | NC strand |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 34 | Award TWO marks for the correct answer of 395808 <br> If the answer is incorrect, award ONE mark for the formal method of long multiplication with no more than ONE arithmetical error, e.g. | 1 m <br> 1m <br> 1m | Working must be carried through to reach a final answer for the award of ONE mark. <br> Do not award any marks if the error is in the place value, e.g. the omission of the zero when multiplying by tens: | 6C7a | Calculations |
| 35 | $1 \frac{7}{12}$ | Up to 2m |  | $\begin{gathered} 6 F 4 \\ 6 F 5 b \end{gathered}$ | Fractions Fractions |
| 36 | $\frac{3}{14}$ | Up to 2m |  | $\begin{gathered} \text { 6F4 } \\ 6 F 5 b \end{gathered}$ | Fractions Fractions |

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