## 2017 national curriculum tests

## Key stage 1

# Mathematics test mark schemes <br> Paper 1: arithmetic and Paper 2: reasoning 

Standards \& Testing Agency

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## 1. Introduction

The Standards and Testing Agency (STA) is responsible for the development and delivery of statutory tests and assessments. STA is an executive agency of the Department for Education.

The 2017 test assesses the 2014 national curriculum. The test has been developed to meet the specification set out in the test framework for mathematics at key stage 1. The test frameworks are on the GOV.UK website at www.gov.uk/government/publications/ key-stage-1-mathematics-test-framework.

A new test and mark schemes will be produced each year.
The key stage 1 tests will be marked internally within schools to inform teacher assessment.
Scaled score conversion tables are not included in this document. Conversion tables will be produced as part of the standard-setting process. Scaled score conversion tables for the 2017 tests will be published at www.gov.uk/guidance/scaled-scores-at-key-stage-1 in June 2017.

The mark schemes are provided to use when marking pupils' responses. The pupil examples are based on responses gathered from the test trialling process. It is important when marking to refer to the general marking principles, the exemplars section and the additional guidance, to ensure marking is accurate and consistent.

## 2. Structure of the key stage 1 mathematics test

The key stage 1 mathematics test materials comprise:

- Paper 1: arithmetic (25 marks)
- Paper 2: reasoning (35 marks).

The mathematics test comprises 2 components which are presented to pupils as 2 separate test papers. The first component is an arithmetic paper (Paper 1). The second component (Paper 2) presents a range of mathematical problems. The test is administered on paper.

## 3. Content domain coverage

The 2017 test meets the specification set out in the test framework. Table 1 sets out the areas of the content domain that are assessed in Papers 1 and 2.

The references below are taken from the test framework. A question assessing 2M1, for example, assesses 'compare and order lengths, mass, volume/capacity and record the results using >, < and =' and is taken from the year 2 programme of study.

Table 1: Content domain coverage of the 2017 key stage 1 mathematics test

| Paper 1: arithmetic |  |
| :---: | :---: |
| Question | Content domain reference |
| 1 | 1C2a |
| 2 | 1N2b/1N1a |
| 3 | 1C2a |
| 4 | 2C2b |
| 5 | 2C1/1C2b |
| 6 | 2N6/2C1 |
| 7 | 2C6 |
| 8 | 2C1/2C2a |
| 9 | 2C2b |
| 10 | 2C2b |
| 11 | 2C3 |
| 12 | 2C2b/1N1a |
| 13 | 2N6/2C2b |
| 14 | 2F1a/1F1a |
| 15 | 2C6 |
| 16 | 2C8/2N1 |
| 17 | 1C4/2C1 |
| 18 | 2C6/1N1b |
| 19 | 2C2b |
| 20 | 2N6/2C2b |
| 21 | 2C2b |
| 22 | 2C6 |
| 23 | 2C3/2C2b |
| 24 | 2F1a |
| 25 | 2C2b |


| Paper 2: reasoning |  |
| :---: | :---: |
| Question | Content domain reference |
| 1 | 2C8 |
| 2 | 1N1a/2N2a |
| 3 | 2N6 |
| 4 | 2C8 |
| 5 | 2P2 |
| 6 | 2N2b/2N3 |
| 7 | 2M4b/2M4c |
| 8 | 2C4/2M9 |
| 9 | 2C6 |
| 10a | 2S2b |
| 10b | 2S1 |
| 11 | 1M4a/2M4a |
| 12 | 2M2 |
| 13 | 2N2b |
| 14 | 2C8 |
| 15 | 2C1/2C3 |
| 16 | 2M3a/2M9 |
| 17 | 2F2 |
| 18 | 2C4 |
| 19 | 2C4 |
| 20 | 2N4 |
| 21 | 2C8 |
| 22 | 1G1a/2G1a |
| 23 | 2C3/2C2b |
| 24 | 2F1a |
| 25 | 2C1/2C3 |
| 26 | 1F1b |
| 27 | 2C7 |
| 28 | 2C4 |
| 29 | 2G2b |
| 30 | 2C4 |
| 31 | 2C4 |

## 4. Explanation of the mark schemes

The marking information for each question is set out in the form of tables (sections 7 and 8).
The 'Qu.' column on the left-hand side of each table provides a quick reference to the question number and part.

The 'Requirement' column may include two types of information:

- a statement of the requirements for the award of each mark, with an indication of whether partial credit can be given for a correct method
- examples of some different types of correct answer.

The 'Mark' column indicates the total number of marks available for each question part.
The 'Additional guidance' column indicates alternative acceptable answers, and provides details of specific types of answer which are unacceptable. Other guidance, such as the range of acceptable answers, is provided as necessary.

## 5. General marking guidance

### 5.1 Applying the mark schemes

To help you mark consistently, the most frequent procedural queries are listed along with the action you should take. Unless otherwise specified in the mark scheme, you should apply these guidelines in all cases.

Example responses are also included for the two working mark questions and one other question in Paper 2: reasoning. These should act as your guide when you are marking these questions.

### 5.2 General marking principles

Table 2: General marking principles

| Possible issues when marking |  |  |
| :--- | :--- | :--- |
| 1.The pupil's answer does <br> not closely match any of <br> the examples in the mark <br> scheme. | Those marking the test will use their judgement to <br> decide whether the answer corresponds with details <br> in the 'Requirement' column of the mark scheme. <br> Refer also to the 'Additional guidance' column and to <br> the examples of responses where appropriate. |  |
| 2.The pupil has answered in <br> a non-standard way. | Pupils may provide evidence in any form as long as <br> its meaning can be understood. Diagrams, symbols <br> or words are acceptable ways to present an answer. |  |
| 3.The pupil's answer <br> is correct but the wrong <br> working is shown. | Always award the mark for a final response that <br> is correct. |  |
| 4.No answer is provided in <br> the expected place but <br> the correct answer is <br> given elsewhere. | Where a word or number response is expected, <br> a pupil may meet the requirement by annotating <br> a graph or labelling a diagram elsewhere in <br> the question. |  |
| 5.The correct answer has <br> been crossed (or rubbed) <br> out and not replaced. | You should not award any marks for crossed out <br> answers or working. |  |
| 6.The answer in the answer <br> box is wrong, but the <br> correct answer is shown <br> in the working. | Give precedence to the response provided in the <br> answer box over any other workings. However, in a <br> 2-mark question, one mark may still be awarded for <br> evidence of a complete, correct method. |  |

## Possible issues when marking

7. More than one answer is given.

If all provided answers are correct (or a range of answers is given, all of which are correct), a mark will be awarded unless the mark scheme states otherwise. If both correct and incorrect responses are given, no mark will be awarded unless the mark scheme states otherwise.
8. There appears to be a misread of numbers that affects the pupil's working.

A misread occurs when a pupil misreads a number given in the question and consistently uses a different number that does not alter the original intention or
difficulty of the question. For example, if 43 is misread as 48 , both numbers may be regarded as comparable in difficulty. However, if 43 is misread as 40 or 45 , the misread number may be regarded as making the question easier, depending on the question. For example, $26+40$ is easier than $26+48$. The misread of a number will affect the award of marks.

No marks are awarded if there is more than one misread in a question or if the mathematics is simplified by the misread.

For 1-mark questions: no mark is awarded for one or more misreads.

For 2-mark questions that have a method mark: one mark is awarded if the correct method is correctly implemented with the misread number, provided this does not simplify the mathematics.
9. The pupil's answer is numerically equivalent to the answer in the mark scheme.

Answers should be given as single values in their simplest form unless the mark scheme states otherwise, e.g. for $\square=12-5$, the answer $4+3$ will not be accepted. Where alternative expressions are acceptable, these will be indicated in the additional guidance column.
10. The pupil reverses a digit in their answer.

A reversed digit is acceptable if it is clearly recognisable as the digit intended. For example, a reversed 2 must clearly show the characteristics of a 2 rather than a 5.

As a further example, where the answer is 61 and the response 21 is given, then this should be awarded the mark.

You should make a decision based upon your knowledge of the pupil's writing.

| Possible issues when marking |  |
| :---: | :---: |
| 11. The pupil transposes digits in their answer. | A pupil transposes digits by reversing their order, e.g. 83 instead of 38 . <br> For questions where no working is shown, an answer with transposed digits should not be awarded the mark. For example, a response of 16 or 12 when the answer is 61 should not be marked as correct. |
| 12. The pupil has worked out the answer correctly but then copied the wrong answer into the answer box. | A transcription error can occur when the pupil miscopies the correct answer from the end of their working into the answer box. <br> Give precedence to the answer given in the answer box over any other workings. There may be cases where the incorrect answer is a transcription error, in which case you may check the pupil's intention and decide whether to award the mark. |
| 13. The pupil's answer correctly follows through from earlier incorrect work. | 'Follow through' marks for an answer may only be awarded when specifically stated in the mark scheme. |

## 6. Internal moderation procedures

We recommend those who are involved in marking the key stage 1 tests undertake moderation activity to ensure marking is consistent across their school.

## 7. Mark schemes for Paper 1: arithmetic

Equivalent answers are not acceptable, e.g. $10+4$ instead of 14 . When marking the arithmetic questions refer specifically to general marking principles $9,10,11$ and 12.

| Qu. | Requirement | Mark | Additional guidance |
| :---: | :--- | :---: | :--- |
| $\mathbf{P}$ | 3 | none | Practice question |
| $\mathbf{1}$ | 2 | 1 m |  |
| 2 | 100 | 1 m |  |
| 3 | 15 | 1 m |  |
| 4 | 29 | 1 m |  |
| 5 | 13 | 1 m |  |
| 6 | 100 | 1 m |  |
| 7 | 12 | 1 m |  |
| 8 | 10 | 1 m |  |
| 9 | 38 | 1 m |  |
| 10 | 96 | 1 m |  |
| 11 | 50 | 1 m |  |
| 12 | 102 | 1 m |  |
| 13 | 97 | 1 m |  |
| 14 | 7 | 1 m |  |
| 15 | 1 | 1 m |  |
| 16 | 24 |  |  |
| 17 | 7 | 1 m |  |
| 18 | 60 | 1 m |  |
| 19 | 64 |  |  |
| 20 | 32 |  |  |
| 21 | 81 |  |  |
| 22 | 8 |  |  |
| 23 | 48 |  |  |
| 24 | 4 |  |  |
| 25 | 43 |  |  |
|  |  |  |  |

## 8. Mark schemes for Paper 2: reasoning

| Qu. | Requirement | Mark | Additional guidance |
| :---: | :---: | :---: | :---: |
| Aural questions |  |  |  |
| P | 5 (footballs) | none | Practice question |
| 1 | 40 (p) | 1m | Accept any unambiguous indication of the correct amount, e.g. <br> - £0.40p <br> Do not award the mark for answers where the amount of pounds and/or pence are incorrect, e.g. <br> - 0.40p <br> - £40p |
| 2 | The correct number ticked as shown: | 1 m | Accept any other clear way of indicating the correct answer. <br> Do not award the mark if additional numbers are indicated, unless it is clear the correct number is the pupil's final choice. |
| 3 | 53 (bean bags) | 1m |  |
| 4 | The correct calculation ticked as shown: $5+3$ $5-3$ $5+5$ $5 \times 3$ | 1 m | Accept any other clear way of indicating the correct calculation, including evaluating only the correct calculation, i.e. writing 15 alongside the correct calculation. <br> Do not award the mark if additional calculations have been evaluated or selected, unless it is clear that the correct calculation is the pupil's final choice. |



| Qu. | Requirement | Mark | Additional guidance |
| :---: | :---: | :---: | :---: |
| 9 | Both correct numbers circled as shown: | 1 m | Both numbers must be indicated for the award of the mark. <br> Accept any other clear way of indicating the two correct numbers. <br> Do not award the mark if additional numbers are indicated, unless it is clear that the two correct numbers are the pupil's final choice. |
| 10a 10b | 6 (children) <br> One block added correctly to the mango column as shown: | $\begin{aligned} & 1 \mathrm{~m} \\ & 1 \mathrm{~m} \end{aligned}$ | Accept inaccuracies in drawing the block as long as the intention is clear, e.g. a mark of any height between 6 and 7 on the vertical axis. <br> (Use the examples of responses given on pages 20-21 to help you determine the award of the mark.) |
| 11 | The correct time ticked as shown: <br> twenty to 6 <br> half past 9 <br> half past 8 <br> quarter to 6 | 1 m | Accept any other clear way of indicating the correct answer. <br> Do not award the mark if additional times are indicated, unless it is clear that the correct time is the pupil's final choice. |
| 12 | 9 (cm) | 1 m | Accept any number in the range $8 \frac{1}{2}-9 \frac{1}{2}$ inclusive, including decimal equivalents. |


| Qu. | Requirement |  |  | Mark | Additional guidance |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 13 | Both <br> each <br> 14 <br> 61 <br> OR <br> 50 <br> 61 <br> OR <br> 61 <br> 14 <br> OR <br> 50 <br> 61 | qual he <br> $>$ <br> $>$ <br> $>$ <br> $>$ <br> $>$ <br> $>$ <br> $>$ <br> $>$ | 0 <br> 0 <br> 50 <br> 14 <br> 14 <br> 0 <br> 50 <br> 0 <br> 0 <br> 14 | 1 m | Both inequalities must be correct for the award of the mark. <br> Do not award the mark if any number is used more than once, e.g. <br> Do not award the mark if numbers not given in the question are used. <br> (Refer to general marking principles 10 and 11 on pages 7 and 8.) |
| 14 | 5 (ban |  |  | 1 m |  |


| Qu. | Requirement | Mark | Additional guidance |
| :---: | :---: | :---: | :---: |
| 15 | Both numbers correct as shown: <br> 7 | 1 m | Both numbers must be correct for the award of the mark. |
| 16 | 80 (p) | 1 m | Do not award the mark if the correct coins are indicated but their total value of 80p is not given, e.g. 50p, 20p, 10p circled without a total. |
| 17 | Correct fraction circled as shown: $\frac{1}{4} \quad \frac{1}{3}\left(\frac{2}{4}\right) \frac{3}{4}$ | 1 m | Accept any other clear way of indicating the correct answer. <br> Do not award the mark if additional fractions are indicated, unless it is clear the correct fraction is the pupil's final choice. <br> Do not accept alternative equivalent values written, e.g. the word 'half'. |


| Qu. | Requirement | Mark | Additional guidance |
| :---: | :---: | :---: | :---: |
| 18 | Award TWO marks for the three sums completed correctly using six different numbers, e.g. <br> Award ONE mark for any two sums completed correctly, such that all three calculations are correct but numbers are repeated in two of the calculations or there is an error in one of the calculations, e.g. | 2m <br> or | All three sums must be correct for the award of TWO marks. <br> Accept $0+27$ as a correct answer. <br> Any two sums can be correct for the award of ONE mark. |
| 19 | 61 (cars) | 1 m |  |
| 20 | All three numbers correct, as shown: | 1 m | If the answer boxes are empty, accept the correct values written in the correct order elsewhere on the page. |
| 21 | 12 (conkers) | 1 m |  |


| Qu. | Requirement | Mark | Additional guidance |
| :---: | :---: | :---: | :---: |
| 22 | Pentagon ticked as shown: | 1m | Accept any other clear way of indicating the correct shape. <br> Do not award the mark if additional shapes are indicated, unless it is clear that the correct shape is the pupil's final choice. |
| 23 | Calculation completed correctly as shown: $9+7-\mathbf{4}=12$ | 1m |  |
| 24 | Correct shape ticked as shown: $\square$ $\square$ $\square$ | 1m | Accept any other clear way of indicating the correct shape. <br> Do not award the mark if additional shapes are indicated, unless it is clear that the correct shape is the pupil's final choice. |
| 25 | Sums completed correctly as shown: | 1m | Both sums must be completed correctly for the award of the mark. |


| Qu. | Requirement | Mark | Additional guidance |
| :---: | :---: | :---: | :---: |
| 26 | Rectangle divided into four equal parts, e.g. <br> OR <br> OR <br> OR | 1 m | Accept slight inaccuracies in drawing lines provided the intention is clear. <br> Accept divisions that do not use dots, provided the lines drawn are reasonably accurate, and the pupil's intention is clear, e.g. <br> Do not award the mark if the rectangle is divided into four unequal parts, e.g. |


| Qu. | Requirement | Mark | Additional guidance |
| :---: | :---: | :---: | :---: |
| 27 | A correct number sentence is given, e.g. <br> - $6 \times 4=24$ <br> - $4 \times 6=24$ <br> Accept other multiplication sentences with the product 24 , except $1 \times 24$, e.g. <br> - $2 \times 12=24$ <br> - $3 \times 8=24$ | 1 m | Award the mark even if additional correct or relevant calculations are given along with a correct calculation, e.g. <br> - $2 \times 6=122 \times 12=24$ <br> Also accept: <br> - $4 \times 6=1 \times 24$ <br> - $6+6+6+6=1 \times 24$ <br> Do not accept $1 \times 24$ or $24 \times 1$ unless accompanied by an additional correct number sentence. <br> Do not accept an incomplete number sentence e.g. <br> - $6 \times 4$ <br> - $6 \times 424$ (missing equals sign) <br> - $6 \times 4=$ (missing product) |
| 28 | Award TWO marks for the correct answer of 16 (cakes) <br> If the answer is incorrect or missing, award ONE mark for evidence of a complete, correct method, e.g. <br> - $55-20-19=$ (incorrect or no answer) <br> - $20+19=38$ (error) <br> $55-38=$ | $2 m$ <br> or <br> 1 m | (Use the examples of responses given on pages $22-24$ to help you determine how many marks can be awarded.) |
| 29 | Both correct shapes ticked as shown: | 1 m | Accept any other clear way of indicating the correct shapes. <br> Do not award the mark if additional shapes are indicated, unless it is clear that the correct two shapes are the pupil's final choice. |


| Qu. | Requirement | Mark | Additional guidance |
| :---: | :---: | :---: | :---: |
| 30 | Award TWO marks for the correct answer of 59 (cars) <br> If the answer is incorrect or missing, award ONE mark for evidence of a complete, correct method, e.g. <br> - $76+18-35=$ (incorrect or no answer) <br> - $76+18=95$ (error) <br> $95-35=$ | $2 m$ <br> or <br> 1 m | (Use the examples of responses given on pages $25-26$ to help you determine how many marks can be awarded.) |
| 31 | 45 (g) | 1 m |  |

## 9. Example responses

### 9.1 Examples of responses from question 10b



Dan and Katrina are both awarded a mark for their constructed response. Dan has indicated that he knows that one more must be added to the mango blocks. Similarly, Katrina has unambiguously indicated that one more block is required even though it slightly goes over the 7 on the vertical axis; she also can be awarded the mark.


Samantha and Tyler each have been awarded the mark for their responses as they have both indicated in an unambiguous way that one more has to be added to the mango blocks.

### 9.1 Examples of responses from question 10 b (continued)



David and Sarah are not awarded the marks for their responses. David has clearly indicated two blocks instead of one block, whereas Sarah's response is ambiguous in that she has not added the information correctly to the chart.

### 9.2 Examples of responses from question 28



Rabina: 1 mark


Both Joel and Rabina have given 61 as their final answer. Joel has provided a correct written method for subtracting 39 . He shows the correct answer 16 at the end of his working, but he has made a transcription error in the answer box. Since it can be clearly seen that 16 was his intended answer, he is awarded two marks. In contrast, although Rabina has a complete, correct method we do not know that 16 was her intended answer. Consequently she can only be awarded one mark for a correct method.


Suzanne and Elijah have used written methods to solve the problem. Although Suzanne has made two arithmetic errors, her method is complete; she subtracted 20 from 55, and subtracted 19 from the result. Therefore she is awarded one mark for a complete, correct method. In contrast, Elijah has subtracted both 20 and 19, but he subtracted each of the numbers in turn from 55 . Although he has evaluated each of his subtractions correctly, he has not shown a correct method. No marks can be awarded.

### 9.2 Examples of responses from question 28 (continued)

## Max: 1 mark

Stacey: 0 marks


Max and Stacey have both completed their first calculation correctly: $20+19=39$. They have both attempted a 'counting on' method for their second calculation. Max has shown that he intended to count on to 55 . However, he has made an arithmetic error by only counting on 6 instead of 16 . Therefore he is awarded one mark for a complete, correct method. In contrast, whilst completing her second step, Stacey did not specify the number she intended to count on to, so her method is incomplete. As a result she is awarded no marks.


Elena and Aidan used a pictorial method to solve the problem. Elena has correctly drawn 55 circles to represent the total number of cakes, and has proceeded to cross off 20 and 19. When obtaining her final answer she made a counting error. She can be awarded one mark for her correct method. Aidan, unlike Elena, has only drawn 50 circles, not 55 . He then proceeded to cross off 20 and 19 accurately. However, he cannot be awarded the method mark because he did not use the number 55 as his starting point, so his method is incorrect and no marks are awarded.

### 9.2 Examples of responses from question 28 (continued)

## Marius: 1 mark



Marius has explained his method fully in words; he has subtracted 20 from 55 providing the correct answer of 35 . He then explains that he subtracted 19 from 35 , but at this stage he has made an arithmetic error providing the incorrect answer of 17. Even though his final answer is incorrect, he has shown a complete, correct method and therefore is awarded one mark. Aisha has also explained her method in words but has not explained which numbers she took from 55 to get to her answer of 15 . Therefore no marks are awarded.

### 9.3 Examples of responses from question 30



## Anita: 1 mark



James has arrived at the correct answer of 59. He is awarded two marks because he has clearly used the answer to $76+18=94$ in his second calculation to obtain his final answer. We can therefore assume that 59 is his final answer. In comparison, although Anita has a complete, correct method, she has made an arithmetic error in her first calculation and carried it through in the second, obtaining the incorrect answer 29. Because she has a complete, correct method, she is awarded one mark.

## Kelly: 1 mark



Kelly and Dominic have used partitioning to solve the problem. Although Kelly has made an arithmetic error in completing her first step, $76+10+8=95$, she has followed it through and completed the method correctly, so she can be awarded one mark for her method. In contrast, Dominic partitions to add $76+18$ and has a correct total, 94 . He then partitions 35 to subtract it, but does not show that 35 must be subtracted from his total of 94 . His method is not complete and no marks are awarded.

### 9.3 Examples of responses from question 30 (continued)

## Sean: 1 mark



Sean's diagram is correct in that it contains 94 tallies, which indicates $76+18$. Next, he subtracted 35 correctly by crossing them off. However, he has made an error when counting the remaining tallies. He is awarded one mark for his complete, correct method. Daisy, in comparison, has also used a pictorial method, but has only drawn 90 tallies instead of 94 . She has crossed off 35 of these tallies accurately. However, because she drew only 90 tallies at the start, we cannot be sure of her first step and must consider her method incorrect. Therefore, Daisy is awarded no marks.

## Mia: 1 mark




Mia has shown a complete, correct method. She has written the correct answer in the answer box, but has crossed it out and replaced it with the incorrect answer 58 . Consequently she can only be awarded one mark for her method. Anton has also written the correct answer of 59 and then crossed it out. Because he has crossed it out, we must ignore it. Since he has not shown his method, no marks are awarded.

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