## National curriculum tests

## Key stage 1

## Mathematics

## Mark schemes

## SAMPLE BOOKLET

Published July 2015
This sample test indicates how the national curriculum will be assessed from 2016. Further information is available on GOV.UK at www.gov.uk/sta.

## [BLANK PAGE]

This page is intentionally blank.

## Contents

1. Introduction ..... 4
2. Structure of the key stage 1 mathematics test ..... 4
3. Content domain coverage ..... 5
4. Explanation of the mark schemes ..... 6
5. General marking guidance ..... 7
5.1 Applying the mark schemes ..... 7
5.2 General marking principles ..... 7
6. Internal moderation procedures ..... 8
7. Mark schemes for Paper 1: arithmetic ..... 9
8. Mark schemes for Paper 2: reasoning ..... 10
9. Exemplar responses ..... 18
9.1 Examples of responses from question 22 ..... 18
9.2 Examples of responses from question 27 ..... 22

## 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 2014 national curriculum will be assessed for the first time in May 2016. The sample test and mark schemes set out how the new national curriculum will be assessed from 2016 onwards. This 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/sta.

A new test and mark scheme will be developed each year.
The key stage 1 tests will be marked internally by teachers to inform teacher assessment.
Scaled score conversion tables are not included in this document. Conversion tables are produced as part of the standard-setting process. As the sample tests are not subject to standard setting, they are not available for these tests. Scaled score conversion tables for the 2016 tests will be published at www.gov.uk/sta in June 2016.

A variety of questions has been included in this sample test to demonstrate the formats and curriculum content that pupils may encounter in a live test. A commentary is provided for any questions where it is useful.

This sample test mark scheme is provided to give teachers an indication of how to mark the tests. The mark schemes for the sample tests have been subject to a shorter process than the full, rigorous development process that is used for live mark schemes. The pupil examples are based on responses gathered from the test trialling process.

The sample test and mark schemes have been reviewed by teachers and other expert reviewers.

## 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)


## 3. Content domain coverage

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

The references below are taken from the test framework. They document which areas of the content domain are assessed in each paper. For example, a question assessing 2M1 sets out to '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 sample key stage 1 mathematics test

| Paper 1: arithmetic |  |
| :---: | :---: |
| Question | Content domain reference |
| 1 | 1C1 |
| 2 | 2C1a |
| 3 | 2N1 |
| 4 | 2C1a |
| 5 | 2N1 |
| 6 | 2C2 |
| 7 | 1C4 |
| 8 | 2C2 |
| 9 | 2C2 |
| 10 | 2C2 |
| 11 | 2C2 |
| 12 | 2N6 |
| 13 | 2C6 |
| 14 | 2C6 |
| 15 | 2C8 |
| 16 | 2C6 |
| 17 | 2C6 |
| 18 | 2F1a |
| 19 | 2C2 |
| 20 | 2C2 |
| 21 | 2F1a |
| 22 | 2C2 |
| 23 | 2C3 |
| 24 | 2F1a |
| 25 | 2F1a |


| Paper 2: reasoning |  |
| :---: | :---: |
| Question | Content domain reference |
| 1 | 1N2b |
| 2 | 2N3 |
| 3 | 2M2 |
| 4 | 1F1a |
| 5 | 2C4 |
| 6 | 1G1a |
| 7 | 1C8 |
| 8 | 2N2a |
| 9 | 2P1 |
| 10 | 2N1 |
| 11 | 2M2 |
| 12 | 2C6 |
| 13 | 2N6 |
| 14 | 2G3 |
| 15 | 2M9 |
| 16 | 2F1a |
| 17 | 2C4 |
| 18 | 2S1/2S2b |
| 19 | 2M3a/2M3b |
| 20 | 2N4 |
| 21 | 2G2a |
| 22 | 2C8 |
| 23 | 2C3 |
| 24 | 2C4 |
| 25 | 2M4a |
| 26 | 2C8 |
| 27 | 2C4 |
| 28 | 2M1 |
| 29 | 2C9b |
| 30 | 2F2 |
| 31 | 2C8 |

## 4. Explanation of the mark schemes

The marking information for each question is set out in the form of tables which are in section 7 and 8 of this booklet.

The 'Qu. ' column on the left-hand side of each table provides a quick reference to the question number and part.

The 'Mark' column indicates the total number of marks available for each question 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 credit can be given for a correct method
- examples of some different types of correct response.

The 'Additional guidance' column indicates alternative acceptable responses, and provides details of specific type of response 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 in section 5.2 along with the action you should take. Unless otherwise specified in the mark scheme, you should apply these following guidelines in all cases.

Exemplars are also included for the working mark questions in Paper 2: reasoning. This should act as a guide when you are marking these questions. We have included more exemplars than will appear in the mark schemes for the live 2016 tests.

### 5.2 General marking principles

Table 2: General marking principles

| Possible issues when marking |  |
| :--- | :--- |
| The pupil reverses a digit <br> when recording. | A reversed digit is acceptable if it is clearly <br> recognisable as the digit intended; for example, a <br> reversed 2 must clearly show the characteristics of a <br> 2 rather than a 5. |
| The pupil writes a transposed <br> number as the answer. | Transposed numbers should not be awarded the <br> mark; for example, an answer of '16' when the correct <br> answer is '61' should not be marked as correct. |
| The pupil's response is <br> numerically equivalent to the <br> answer in the mark scheme. | The mark scheme will generally specify which <br> equivalent responses are allowed. If this is not the <br> case, award the mark unless the mark scheme states <br> otherwise. |
| The pupil's answer is correct <br> but the wrong working is <br> shown. | Always award the mark(s) for a correct response unless <br> the mark scheme states otherwise. |
| The correct response has <br> been crossed (or rubbed) out <br> and not replaced. | Do not give credit for legible crossed-out answers that <br> have not been replaced <br> Do not give credit for crossed-out answers that have <br> been replaced by a further incorrect attempt. |
| The pupil has worked out the <br> answer correctly and then <br> written an incorrect answer in <br> the answer box. | Give precedence to the answer given in the answer box <br> over any other workings. |
| There may be cases where the incorrect answer is |  |
| due to a transcription error. You may check the pupil's |  |
| intention and decide whether to award the mark. |  |$|$


| Possible issues when marking |  |
| :--- | :--- |
| More than one answer is given. | If all answers given are correct (or a range of answers <br> is given, all of which are correct), award the mark <br> unless the mark scheme states otherwise. If both <br> correct and incorrect responses are given, do not <br> award the mark unless the mark scheme states <br> otherwise. |
| The pupil's response does <br> not match closely any of <br> the examples given in the <br> mark scheme. | Judge whether the response corresponds with the <br> answers in the requirement column of the mark <br> scheme. Refer also to the Additional guidance column <br> and to the examples of responses <br> (where appropriate). |
| There appears to be a <br> misread of numbers affecting <br> the working. | In general, the mark should not be awarded. However, <br> in two-mark questions that have a working mark, <br> award one mark if the working is applied correctly <br> using the misread numbers, provided that the misread <br> numbers are comparable in difficulty to the original <br> numbers. For example, if '243' is misread as '234', <br> both numbers may be regarded as comparable in <br> difficulty. |
| No answer is given in the <br> expected place, but the correct <br> answer is given elsewhere. | Where a pupil has shown understanding of the <br> question, award the mark. In particular, where a word <br> or number response is expected, a pupil may meet <br> the requirement by annotating a graph or labelling a <br> diagram elsewhere in the question. |
| The pupil's answer correctly <br> follows through from earlier <br> incorrect work. | 'Follow through' marks may be awarded only when <br> specifically stated in the mark scheme. |

## 6. Internal moderation procedures

We recommend teachers involved in marking the key stage 1 tests undertake moderation activity to ensure marking is consistent across their school. Guidance is published on the GOV.UK website at www.gov.uk/sta.

## 7. Mark schemes for Paper 1: arithmetic

| Qu. | Requirement | Mark | Additional guidance |
| :---: | :---: | :---: | :---: |
| P | 6 | none | Practice question |
| 1 | 12 | 1m |  |
| 2 | 10 | 1m |  |
| 3 | 99 | 1m |  |
| 4 | 11 | 1m |  |
| 5 | 21 | 1m |  |
| 6 | 31 | 1m |  |
| 7 | 4 | 1m |  |
| 8 | 53 | 1m |  |
| 9 | 17 | 1m |  |
| 10 | 60 | 1m |  |
| 11 | 47 | 1m |  |
| 12 | 30 | 1m |  |
| 13 | 80 | 1m |  |
| 14 | 0 | 1m |  |
| 15 | 9 | 1m | Commentary question 15: Pupils are expected to count in threes and solve multiplication problems using repeated addition. (2C8/2N1) |
| 16 | 6 | 1 m |  |
| 17 | 7 | 1m |  |
| 18 | 5 | 1m |  |
| 19 | 81 | 1m |  |
| 20 | 65 | 1m |  |
| 21 | 15 | 1m |  |
| 22 | 52 | 1m |  |
| 23 | 28 | 1m |  |
| 24 | 7 | 1m |  |
| 25 | 30 | 1m |  |

## 8. Mark schemes for Paper 2: reasoning

| Qu. | Requirement | Mark | Additional guidance |
| :---: | :---: | :---: | :---: |
| Aural questions |  |  |  |
| P | 8 (ladybirds) | none | Practice question |
| 1 | 23 | 1m |  |
| 2 | 9 (tens) | 1m | Accept 'nine'. <br> Also accept additional information, e.g. 9 (tens) and 6 <br> Do not accept ‘90’ (tens). |
| 3 | Measurement circled as shown: $2 \mathrm{~cm} \quad 2 \mathrm{~kg} \quad 2^{\circ} \mathrm{C} \quad 2 \mathrm{D}$ | 1m | Accept any other clear way of indicating the correct response. |
| 4 | 2 (pieces of paper) | 1m |  |
| 5 | 10 (cm) | 1m |  |
| Written questions |  |  |  |
| 6 | Hexagon ticked as shown: | 1m | Accept any other clear way of indicating the correct shape, e.g. circling. <br> Do not award the mark if other shapes are also indicated, unless it is clear that the correct shape is the pupil's final choice. |
| 7 | 14 (shoes) | 1m |  |


| Qu. | Requirement |  | Mark | Additional guidance |
| :---: | :---: | :---: | :---: | :---: |
| 8 | words <br> thirty-eight <br> forty <br> ninety-four | digits <br> 38 <br> 40 <br> 94 | 1 m | Both parts must be correct for the award of the mark. <br> Accept any reasonable spelling for 'forty', e.g. forte, fourtee, fort. <br> Do not accept words that might indicate 'fourteen', e.g. fortin, <br> OR <br> 'four', e.g. for, fore. <br> Accept reversed digits for ' 94 ', e.g. 'P4' provided that the order of the digits is not swapped. <br> Do not accept 49, 4P etc. |
| Commentary for question 8: An aspect of the new national curriculum requires pupils to be able to read and write numbers to at least 100 in numerals and in words. |  |  |  |  |
| 9 | Pattern completed as shown: |  | 1 m | All four shapes must be correct for the award of the mark. <br> Accept any unambiguous drawing of the correct shapes. |


| Qu. | Requirement | Mark | Additional guidance |
| :---: | :---: | :---: | :---: |
| 10 | Pattern completed as shown: <br> 0 <br> 3 <br> 6 <br> 9 | 1m | Both numbers must be correct for the award of the mark. |
| 11 | 11 (cm) | 1 m | Accept answers in the range: $10 \frac{1}{2}(\mathrm{~cm})$ to $11 \frac{1}{2}(\mathrm{~cm})$ inclusive. |
| 12 | Crosses drawn on 41 and 70 as shown: <br> even numbers | 1 m | Both numbers must be selected for the award of the mark. <br> Accept any other clear way of indicating the correct numbers. |
| 13 | 54 (crayons) | 1 m |  |


| Qu. | Requirement |  | Mark | Additional guidance |
| :---: | :---: | :---: | :---: | :---: |
| 14 | Cross drawn on <br> Shapes with a square face | ylinder, as shown: | 1 m | Accept any other clear way of indicating the cylinder. <br> Do not award the mark if other shapes are indicated, unless it is clear that the correct shape is the pupil's final choice. <br> Accept a tick that is near to the correct answer, so as long as it is unambigous as to which shape is identified. |
| 15 | Tick drawn on th | rrect bag, as shown: <br> Wwnwn | 1 m | Accept any other clear way of indicating the correct bag. <br> Do not award the mark if other bags are indicated, unless it is clear that the correct bag is the pupil's final choice. <br> Accept a tick that is near to the correct answer, so as long as it is unambigous as to which bag is identified. |
| 16 | Correct fraction | en in the box, as shown: | 1 m | Also accept $\frac{1}{4}$ written in words, e.g. 'one quarter'. |
| Commentary for question 16: Being able to recognise, find, name and write fractions $\frac{1}{3}, \frac{1}{4}, \frac{2}{4}$, and $\frac{3}{4}$ of a length, shape, set of objects or quantity is an expectation of the new national curriculum for key stage 1 mathematics (2F1a). |  |  |  |  |
| 17 | 20 (cards) |  | 1m |  |
| $\begin{aligned} & 18 a \\ & 18 b \end{aligned}$ | $\begin{aligned} & 10 \text { (animals) } \\ & 4 \end{aligned}$ |  | $\begin{aligned} & 1 \mathrm{~m} \\ & 1 \mathrm{~m} \end{aligned}$ | Do not accept 7 - 3 |

\begin{tabular}{|c|c|c|c|}
\hline Qu. \& Requirement \& Mark \& Additional guidance <br>
\hline 19a

19b \& \begin{tabular}{l}
Three coins ticked as shown: <br>
Four coins ticked as shown: <br>
OR

 \& 

1 m <br>
1m

 \& 

Accept any other clear way of indicating the correct coins. <br>
Accept any other clear way of indicating the correct coins.
\end{tabular} <br>

\hline 20 \& 25 \& 1 m \& <br>

\hline 21 \& | Line of symmetry drawn on each shape; e.g. |
| :--- |
| Accept correct lines of symmetry in other orientations; e.g. | \& 1 m \& | All three lines of symmetry must be correct for the award of the mark. |
| :--- |
| Accept slight inaccuracies in the line of symmetry as long as the intention is clear. (As a guide, the line of symmetry should be within 3 mm of a vertex, or the midpoint of the shape.) |
| Accept more than one line of symmetry on any shape provided that each line is within the tolerance stated. |
| Do not award the mark if incorrect lines are drawn on shapes. | <br>


\hline 22 \& | Award TWO marks for the correct answer of 10 (carrots). |
| :--- |
| If the answer is incorrect, award ONE mark for evidence of appropriate method, e.g. |
| - $3 \times 4=12$ |
| $12-2=$ | \& | $2 m$ |
| :--- |
| OR |
| 1 m | \& | Award ONE mark for a complete correct method. |
| :--- |
| (Use the acceptable and unacceptable responses given on pages 18 to 21 to help you make your decision.) | <br>

\hline
\end{tabular}



| Qu. | Requirement | Mark | Additional guidance |
| :---: | :---: | :---: | :---: |
| 26 | Calculation ticked as shown: $\begin{aligned} & 20+5=25 \\ & 20-5=15 \\ & 20 \div 5=4 \\ & 20 \times 5=100 \end{aligned}$ $\square$ $\square$ $\square$ $\square$ | 1 m | Accept any other clear way of indicating the correct calculation. <br> Do not award the mark if other calculations are indicated unless it is clear that the correct calculation is the pupil's final choice. |
| 27 | Award TWO marks for the correct answer of: 12 (raisins). <br> If the answer is incorrect, award ONE mark for evidence of appropriate method, e.g. $\begin{aligned} & \text { - } 50-23=27 \\ & 27-15= \end{aligned}$ | $2 m$ <br> OR <br> 1m | Award ONE mark for a complete correct method. <br> (Use the acceptable and unacceptable responses given on pages 22 to 25 to help you make your decision.) |
| 28 | Both signs written correctly as shown: <br> Cheetah's mass <br> Tiger's mass <br> Tiger's mass $\square$ Lion's mass | 1 m | Accept any unambiguous drawing of the correct symbol. <br> Do not accept words instead of signs, e.g. do not accept 'less than' in place of the ' $<$ ' sign. |
| Commentary for question 28: Pupils are expected to be able to use inequality signs to compare measures (2M1). |  |  |  |
| 29 | A correct decision for each pair of calculations, as shown below: <br> yes <br> yes <br> no <br> no | 1 m | All decisions must be correct for the award of the mark. <br> Accept any other clear way of indicating the correct decisions, e.g. <br> ' Y ' or $\boldsymbol{\checkmark}$ or 'true' for 'yes' <br> ' $N$ ' or $\boldsymbol{X}$ or 'false' for 'no'. |
| Commentary for question 29: Knowing the commutivity laws for the four operations is a new requirement for key stage 1 mathematics. (2C9b/2C9a) |  |  |  |


| Qu. | Requirement | Mark | Additional guidance |
| :---: | :---: | :---: | :---: |
| 30 | Both fractions circled as shown: $\frac{1}{2} \quad \frac{1}{3} \quad \frac{2}{4} \quad \frac{3}{4}$ | 1 m | Accept any other clear way of indicating the correct fractions. <br> Do not award the mark if other fractions are indicated unless it is clear that the correct two fractions are the pupil's final choice. |
| Commentary for question 30: The only pair of equivalent fractions key stage 1 pupils are expected to recognise is $\frac{1}{2}$ and $\frac{2}{4}$ (2F2). |  |  |  |
| 31 | Award ONE mark for the answer 12 as shown: $3 \times 8=2 \times 12$ | 1 m |  |

Commentary for question 31: This question is demanding as the pupil needs to solve a problem through mathematical reasoning. The pupil is expected to count in threes and solve multiplication and division facts using mental methods and repeated addition (2C8).

## 9. Exemplar responses

### 9.1 Examples of responses from question 22

Pupil's must show a complete, correct method for the award of the method mark. The working may contain one or more arithmetic errors.

## 2 marks

## 1 mark

Declan has been awarded two marks because he has recorded the correct answer even though it is not within the answer box. Petra has recorded a complete pictorial method but has not evaluated her final answer; therefore she is awarded one mark.

## Declan



Petra


## 1 mark

## 0 marks

Molly has made an arithmetic error when totalling four groups of 3. An invisible step; i.e. $9-2$, can be assumed because she has the answer 7, and therefore she is awarded one mark for a complete correct method. Joel has made a similar arithmetic error in totalling the four 3s. For his second step we cannot assume he attempted to subtract 2 , as he has not reached the answer of 7 ; therefore no mark can be awarded.

## Molly



Joel


## Examples of responses from question 22 continued

## 1 mark

0 marks

Chen has recorded a complete method; i.e. he has multiplied 4 by 3 and subtracted 2 . If he had not made an arithmetic error in calculating $4 \times 3$, he would have reached the correct final answer. Consequently he can be awarded one mark. Jenny has calculated $4 \times 3$ correctly, but has failed to subtract 2 , to complete the method, so no mark can be awarded.

## Chen



Jenny


## 1 mark

## 0 marks

Jaya and Tom have used a counting on method for the first part of the problem. Jaya has made four jumps of 3 , but has made an error in her third jump. Although she has not shown the next step in the problem, we can see that she has subtracted 2 as $13-2=11$. She has recorded a complete, correct method so one mark can be awarded. Tom has not made any arithmetic errors in repeatedly adding 3 . He has recorded four jumps of 3 , but did not start from 0 . This is not a correct method for calculating $4 \times 3$, so no mark can be awarded.

Jaya


Tom


## Examples of responses from question 22 continued

## 1 mark

## 0 marks

Craig and Omar have used pictorial representations to illustrate the rows of carrots. Craig has done this correctly and clearly shown the subtraction of 2 ; however he has miscounted the remaining carrots. He has recorded a complete, correct method so one mark can be awarded. Omar has made an error in recording the carrots, possibly confusing the number of rows and the number of carrots in each group. Although he subtracts 2 to complete the calculation, it is not a fully correct method, so no mark can be awarded.

## Craig



Omar


## 1 mark

$\square$
Jasmine has recorded a complete method with an arithmetic error. She calculates four lots of 3 (=13) incorrectly, but goes on to complete the method by subtracting 2 and is awarded one mark. Kim may have intended to follow the same procedure, but because she has only recorded three groups of 3, we cannot be assured of her method for calculating $4 \times 3$, so no mark can be awarded.

Jasmine


Kim


## Examples of responses from question 22 continued

## 1 mark

0 marks

Hannah and Seija have both recorded part of their method. Hannah has correctly calculated $4 \times 3$ mentally before recording the result and subtracting 2 from it ( $12-2$ ). Although she made an arithmetic error in her subtraction she has a complete, correct method so one mark can be awarded. Seija may have carried out the same procedure, but because she has not recorded her working for the first part, we cannot be sure how her 13 was obtained. Therefore no mark can be awarded.

Hannah


Seija

$\square$

## 0 marks

## 1 mark

Simon and Maria have both recorded the second part of the method, like Seija. However Simon has shown four groups of 3 (the first part of the method) and we can assume he has miscounted to reach his 11 . He has shown a complete, correct method so one mark can be awarded. Maria may have mentally calculated $4 \times 3$ (wrongly), but because she has not recorded her working for that part, we cannot be sure how her 11 was obtained.
Therefore no mark can be awarded.

Simon


Maria


### 9.2 Examples of responses from question 27

Pupils must show a complete, correct method for the award of the method mark. The working may contain one or more arithmetic errors.

## 2 marks

## 0 marks

Mateuz has given the correct answer and is awarded two marks. Even though Esma may have intended to write 12, as she has not recorded a method we cannot be sure and must read her answer as 21 . Therefore no mark can be awarded.

## Mateuz



## Esma



## 1 mark

0 marks

Rajesh has shown a complete, correct method (i.e. he has subtracted both 23 and 15 from 50). Although he has made an arithmetic error, one mark can be awarded for the correct method. Kayleigh has shown that she intends to subtract 23 from 50 , but, because her answer is incorrect, it is not clear what operation she has performed with the 15 , so no mark can be awarded.

Rajesh

$$
50-23-15=22
$$



## Kayleigh



## Examples of responses from question 27 continued

## 1 mark

## 0 marks

Jessica and Ryan have both used a number line to record their calculations. Jessica has partitioned the 23 and 15, before subtracting each part. She made an arithmetic error in taking away 23 ( 10 and 10 and 3 ), but has attempted to subtract all parts of the 23 and 15 from 50 , so is awarded one mark. Ryan has also attempted to partition the numbers, but has not completed the task. He has subtracted 23 (20 and 3), but only taken away part of the 15 . His method is incomplete, so no mark can be awarded.

## Jessica



Ryan


## 1 mark

0 marks

Neela has recorded a complete method, so is awarded one mark. She began by subtracting 23 from 50 correctly, to find 27 . She then attempted to take away 15 from 27 by partitioning each number and subtracting the correct parts, but made an arithmetic error in $7-5=3$. Joe has only completed the first step of the problem. He is not awarded a mark as his method is incomplete.

Neela

$$
\begin{aligned}
& 50-23=27 \\
& 20-10=10 \\
& 7-5=3
\end{aligned}
$$



Joe

$$
50-23=27
$$

## Examples of responses from question 27 continued

## 1 mark

0 marks

Charu and Arun have both used a descriptive method to record their working. Although Char has made two arithmetic errors, she has described the complete method and can be awarded one mark. Arum has recognised that he needs to subtract, but has failed to provide sufficient description of the numbers he would take away, so no mark can be awarded.

## Char

$$
\begin{aligned}
& \text { I put } 50 \text { in my head then I took } \\
& \text { awry } 23 \text { and got } 37 \text { and } \\
& \text { then I took away } 15 \text { and. } \\
& \text { got } 21
\end{aligned}
$$



## Arun



## 1 mark

## 0 marks

Amir and Bethany have both used pictorial representations of their methods. Amir has used 50 small circles to represent 50 raisins (drawing separate sets of 23 and 15 small circles to represent Ben and Amy's raisins); he has then coloured 23 of the 50 for Ben and another 15 for Amy, leaving 12 uncoloured circles. Although he has miscounted the 12 circles to give his answer of 13 , he has shown a complete, correct method and is awarded one mark. Bethany has represented the 50 raisins with 50 small lines, but has drawn loops around 16 and 21 small lines, showing a wrong method, so no mark can be awarded.

Amir


Bethany


## Examples of responses from question 27 continued

## 1 mark

## 0 marks

Jack and Sinead have both recorded part of the correct method. Jack has recorded the first step of the problem but has made an arithmetic error ( $50-23=37$ ). We can assume that he has then subtracted 15, as $37-15=22$, which is the answer that he has given. This illustrates a complete, correct method and one mark is awarded. Sinead has recorded the first step of the problem without any error ( $50-23=27$ ). However, we cannot assume that she has then subtracted 15, as the answer she has given for $27-15$ is not correct. Consequently no mark can be awarded.

## Jack



## Sinead



## Standards \& Testing Agency

Sample key stage 1 mathematics test mark schemes Electronic PDF version product code: STA/15/7333/e ISBN: 978-1-78315-818-8

## For more copies

Additional printed copies of this booklet are not available. It can be downloaded from www.gov.uk/government/publications.

## © Crown copyright and Crown information 2015

## Re-use of Crown copyright and Crown information in test materials

Subject to the exceptions listed below, the test materials on this website are Crown copyright or Crown information and you may re-use them (not including logos) free of charge in any format or medium in accordance with the terms of the Open Government Licence v3.0 which can be found on the National Archives website and accessed via the following link: www.nationalarchives.gov.uk/doc/open-government-licence. When you use this information under the Open Government Licence v3.0, you should include the following attribution: 'Contains public sector information licensed under the Open Government Licence v3.0' and where possible provide a link to the licence.

Exceptions - third-party copyright content in test materials
You must obtain permission from the relevant copyright owners, as listed in the ' 2016 sample tests copyright report', for re-use of any third-party copyright content which we have identified in the test materials, as listed below. Alternatively you should remove the unlicensed third-party copyright content and/or replace it with appropriately licensed material.

## Third-party content

These materials contain no third-party copyright content.
If you have any queries regarding these test materials contact the national curriculum assessments helpline on 03003033013 or email assessments@education.gov.uk.

