

2016 national curriculum tests

Key stage 1

Mathematics test mark schemes

Paper 1: arithmetic
and Paper 2: reasoning



Standards
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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 2016 tests are the first assessment of the 2014 national curriculum. 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 will be produced as part of the standard-setting process. Scaled score conversion tables for the 2016 tests will be published at www.gov.uk/sta in June 2016. The standard-setting process will take place in May 2016.

This mark scheme is provided for teachers to use when marking pupils' responses. The pupil examples are based on responses gathered from the test trialling process.

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 is comprised of two components which are presented to pupils as two 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. Each paper includes material drawn from the statutory section of the key stage 1 national curriculum (2014).

3. Content domain coverage

The 2016 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 test papers 1 and 2.

The references below are taken from the test framework. A question assessing 2M1, for example, 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 2016 key stage 1 mathematics test

Paper 1: arithmetic		Paper 2: reasoning	
Question	Content domain reference	Question	Content domain reference
1	2C1	1	2N3
2	2C1	2	2C4
3	1C4	3	2N1
4	2C2b	4	2C2b
5	2C2b	5	2C6
6	2C6	6	2M1
7	2C6	7	1C4
8	2C3	8	1M3
9	2C3	9	2N2a
10	2C1	10	2S1
11	2N1	11	2C4
12	2C6	12	2G2a
13	2C2b	13a	2C1
14	2C6	13b	2C1
15	2C3	14	2F1a
16	2C2b	15	2M9
17	2C8	16a	2N4
18	2F1a	16b	2N4
19	2C2b	17	2G2b
20	2C6	18	2C4/2C8
21	2C6	19	2C8
22	2F1a	20	2C4
23	2C2b	21	1G1a
24	2F1a	22	2C4
25	2F1a	23	2P2
		24	2M2
		25	2N6
		26	2C7
		27	2F1a
		28	2C4
		29	2N2b
		30	2C4
		31	2M4a

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 '**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 answer.

The '**Additional guidance**' column indicates alternative acceptable answers, and provides details of specific types of answers 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 working mark question and one other question in Paper 2: reasoning. This 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 not match closely any of the examples in the mark scheme.	Teachers will use their judgement in deciding whether the answer corresponds with details in the 'Requirement' column of the mark scheme. Refer also to the 'Additional guidance' column and to the examples of responses (where appropriate).
2. The pupil has answered in a non-standard way.	Pupils may provide evidence in any form as long as its meaning can be understood. Diagrams, symbols or words are acceptable for indicating an answer.
3. There appears to be a misread of numbers affecting the working.	<p>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. The misread of a number will affect the award of marks.</p> <p>No marks are awarded if there is more than one misread in a question or if the mathematics is simplified by the misread.</p> <p>For 1-mark questions: no mark is awarded for one or more misreads.</p> <p>For 2-mark questions that have a method mark: 1 mark is awarded if the correct method is correctly implemented with the misread number, provided this does not simplify the mathematics.</p>
4. No answer is given in the expected place, but the correct answer is given elsewhere.	Where a word or number response is expected, a pupil may meet the requirement by annotating a graph or labelling a diagram elsewhere in the question.
5. The pupil's answer is correct but the wrong working is shown.	Always award the mark for a final response that is correct.
6. The answer in the answer box is wrong, but the correct answer is shown in the working.	Give precedence to the response given in the answer box over any other workings. However, in a 2-mark question, one mark may still be awarded for evidence of a complete, correct method.

Possible issues when marking	
7. 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.
8. The correct answer has been crossed (or rubbed) out and not replaced.	No marks will be awarded for crossed-out answers or working.
9. More than one answer is given.	If all answers given are correct (or a range of answers are 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.
10. The pupil reverses a digit in their answer.	<p>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.</p> <p>As a further example, where the answer is '61' and the response 'ø1' is given, then this should be awarded the mark.</p> <p>You should take a decision based upon your knowledge of the child's writing.</p>
11. The pupil transposes digits in their answer.	<p>A pupil transposes digits by reversing their order e.g. '83' instead of '38'.</p> <p>An answer with transposed digits should not be awarded the mark; for example, a response of '16' or '1ø' when the answer is '61' should not be marked as correct.</p>

6. Internal moderation procedures

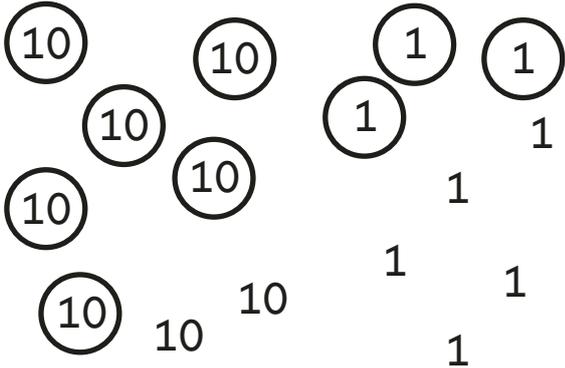
We recommend teachers involved in marking the key stage 1 tests undertake moderation activity to ensure marking is consistent across their school. Guidance is published on the GOV.UK website at www.gov.uk/sta.

7. Mark schemes for Paper 1: arithmetic

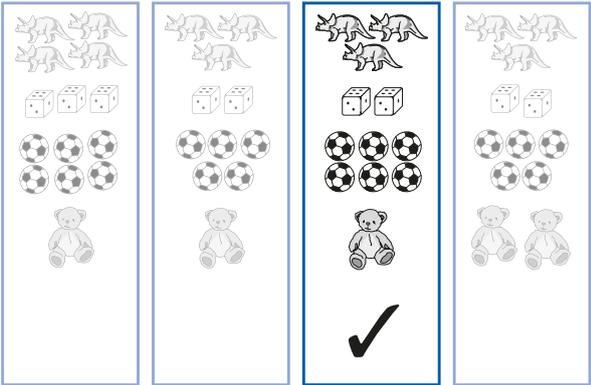
Equivalent answers are **not** acceptable e.g. $10 + 4$ instead of 14

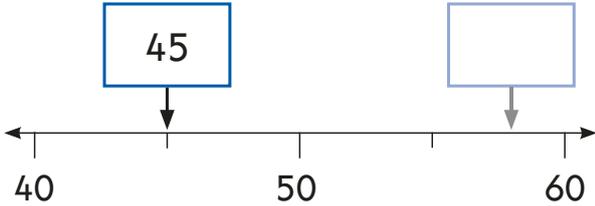
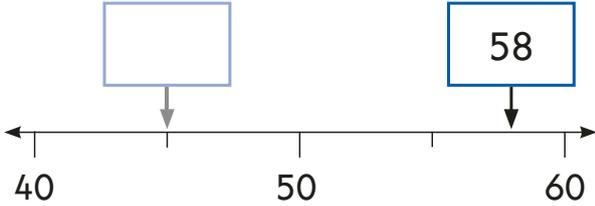
Qu.	Requirement	Mark	Additional guidance
P	4	none	Practice question
1	14	1m	
2	5	1m	
3	8	1m	
4	59	1m	
5	15	1m	
6	90	1m	
7	6	1m	
8	30	1m	
9	5	1m	
10	70	1m	
11	43	1m	
12	40	1m	
13	61	1m	
14	4	1m	
15	7	1m	
16	80	1m	
17	18	1m	
18	8	1m	
19	72	1m	
20	4	1m	
21	11	1m	
22	3	1m	
23	57	1m	
24	10	1m	
25	15	1m	

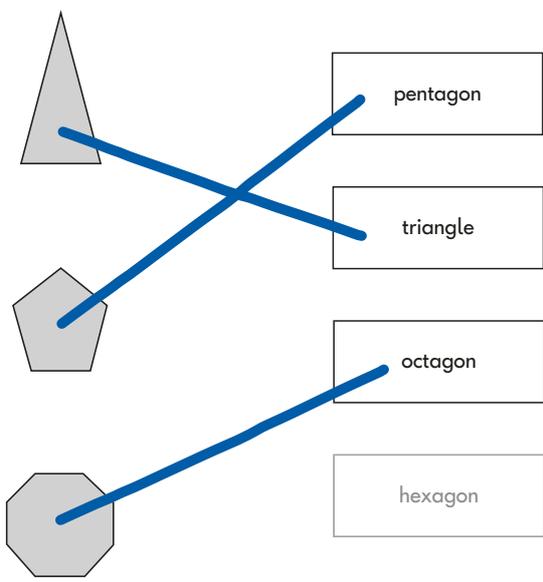
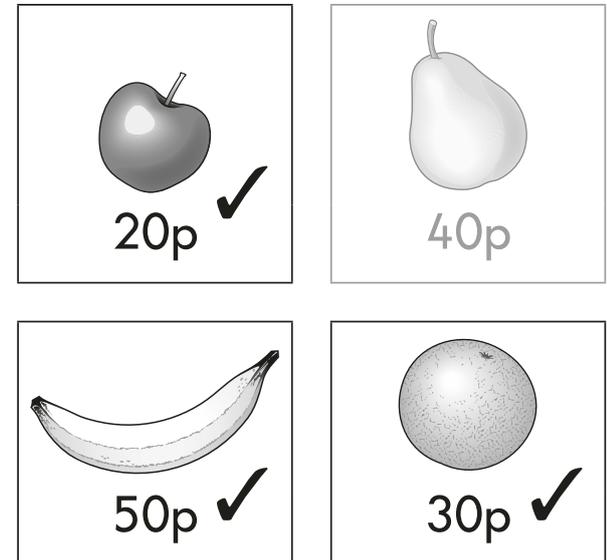
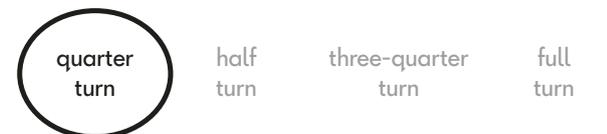
8. Mark schemes for Paper 2: reasoning

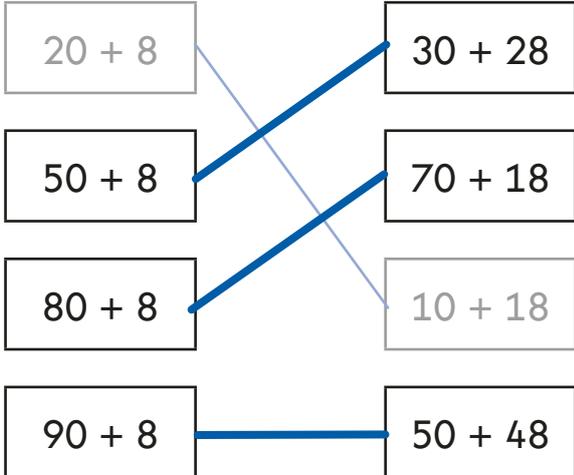
Qu.	Requirement	Mark	Additional guidance
Aural questions			
P	7 (dots)	none	Practice question
1	<p>6 tens and 3 ones circled, e.g.</p> 	1m	Accept any other clear way of indicating the correct answer.
2	23 (children)	1m	
3		1m	<p>Accept correct numbers in either order.</p> <p>Accept both answers given in one of the boxes.</p> <p>(Refer to general marking principles 4, 10 and 11 on pages 6 and 7)</p>
4	10	1m	
5	21, 23, 25, 27, 29	1m	<p>All five numbers must be correct for the award of the mark.</p> <p>Accept repeated correct numbers e.g. 21, 23, 23, 25, 27, 29</p> <p>Numbers may be written in any order.</p> <p>Do not award the mark if additional incorrect numbers are written inside the answer box.</p> <p>(Use the examples of responses given on page 17 to help you determine if the mark can be awarded.)</p>

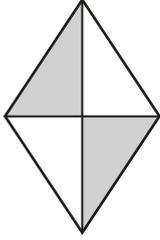
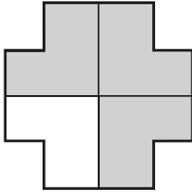
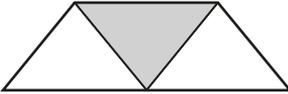
Qu.	Requirement	Mark	Additional guidance
Written questions			
6	Letters written in the correct order as shown: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;">B</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">D</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">C</div> <div style="border: 1px solid black; padding: 5px; text-align: center;">A</div> </div> <p style="display: flex; justify-content: space-between; width: 100%;">least fullmost full</p>	1m	All letters must be in the correct order for the award of the mark. Accept any other clear way of indicating the correct answer e.g. matching each glass to the correct box. Accept the letters given in the reverse order, provided the labels have been swapped.
7	12 (shells)	1m	
8	Coins matched to the correct boxes as shown: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> Less than </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> More than </div> </div> <div style="display: flex; justify-content: center; align-items: center; margin-top: 10px;"> <div style="border: 1px solid black; width: 150px; height: 200px; margin-right: 10px;"></div> <div style="display: flex; flex-direction: column; align-items: center; margin-right: 10px;"> </div> <div style="border: 1px solid black; width: 150px; height: 200px; margin-left: 10px;"></div> </div> <p><i>(Note: In the original image, blue lines connect the 5p coin to the 'Less than' box, the 2p coin to the 'More than' box, the 1p coin to the 'Less than' box, and the 50p coin to the 'More than' box.)</i></p>	1m	All four coins must be matched correctly for the award of the mark. Accept any other clear way of indicating the correct answer. Do not award the mark if a coin is matched to both boxes.

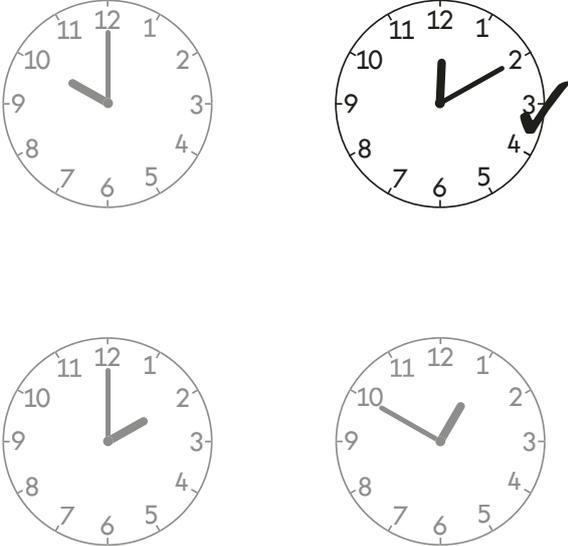
Qu.	Requirement	Mark	Additional guidance
9	<p>Card indicated as shown:</p> 	1m	<p>Accept any other clear way of indicating the correct answer.</p> <p>Do not award the mark if other cards are indicated unless it is clear the correct card is the child's final choice.</p>
10	<p>Third box ticked as shown:</p> 	1m	<p>Accept any other clear way of indicating the correct box.</p> <p>Do not award the mark if other boxes are indicated unless it is clear that the correct box is the child's final choice.</p>
11	13 (balloons)	1m	
12	<p>Two sentences ticked as shown:</p> <p>A square has sides of equal length. <input checked="" type="checkbox"/></p> <p>A square has curved sides. <input type="checkbox"/></p> <p>A square has lines of symmetry. <input checked="" type="checkbox"/></p> <p>A square has five sides. <input type="checkbox"/></p>	1m	<p>Both correct sentences must be indicated for the award of the mark.</p> <p>Accept any other clear way of indicating the correct sentences.</p> <p>Do not award the mark if other sentences are indicated unless it is clear that the correct sentences are the child's final choice.</p>

Qu.	Requirement	Mark	Additional guidance
13a	Two numbers written that total 19, e.g. $\boxed{10} + \boxed{9} = 19$ $\boxed{16} + \boxed{3} = 19$ $\boxed{19} + \boxed{0} = 19$	1m	Accept any two numbers that total 19
13b	Three numbers written that total 19, e.g. $\boxed{10} + \boxed{4} + \boxed{5} = 19$ $\boxed{5} + \boxed{5} + \boxed{9} = 19$	1m	Accept any three numbers that total 19, including repeated numbers, e.g. 19 + 0 + 0
14	8 (toy cars)	1m	
15	93 (p)	1m	Accept the answer £0.93p Do not award the mark for 0.93p or £93p
16a	45 written in the first box as shown: 	1m	(Refer to general marking principles 4, 10 and 11 on pages 6 and 7)
16b	58 written in the second box as shown: 	1m	Accept any number in the range 57–59 inclusive . (Refer to general marking principles 4, 10 and 11 on pages 6 and 7)
17	D	1m	Accept any other clear way of indicating the correct shape.
18	35 (pencils)	1m	Do not accept the correct number of pencils indicated, unless the answer 35 is also seen.
19	6 (bags)	1m	

Qu.	Requirement	Mark	Additional guidance
20	7 (counters)	1m	<p>Do not accept seven counters drawn unless the answer 7 is also seen.</p> <p>(Refer to general marking principle 4 on page 6)</p>
21		1m	<p>All shapes must be correctly matched for the award of the mark.</p> <p>Do not award the mark if a shape is matched to more than one name.</p> <p>Ignore any additional shapes drawn.</p>
22	<p>Three correct fruits ticked as shown:</p> 	1m	<p>Accept any other clear way of indicating the correct fruits shown on the page e.g. $50p + 20p + 30p = 100p$ or £1</p> <p>(Refer to general marking principle 4 on page 6)</p>
23	<p>Correct answer circled as shown:</p> 	1m	<p>Accept any other clear way of indicating the correct rotation.</p> <p>Do not award the mark if other rotations are indicated unless it is clear that the correct answer is the child's final choice.</p>
24	150 (g)	1m	

Qu.	Requirement	Mark	Additional guidance
25		1m	<p>All three pairs must be correctly matched for the award of the mark.</p> <p>Do not award the mark if a sum is matched to more than one sum.</p> <p>Ignore any extra lines drawn from $20 + 8$</p>
26	<p>Both calculations circled as shown:</p> <p>$10 + 4$</p> <p>4×10</p> <p>$10 + 10 + 10 + 10$</p> <p>$4 + 4 + 4 + 4$</p>	1m	<p>Both correct calculations must be indicated for the award of the mark.</p> <p>Accept any other clear way of indicating the correct calculations, including evaluating only the correct two calculations, i.e. writing 40 alongside each of the two correct calculations.</p> <p>Do not award the mark if other calculations have been evaluated, and the correct two have not been indicated.</p> <p>Do not award the mark if more than two calculations are circled unless it is clear that the correct calculations are the child's final choice.</p>

Qu.	Requirement	Mark	Additional guidance
27	<p>Award TWO marks for all shapes correctly shaded e.g.</p> <p>Shade $\frac{1}{2}$</p>  <p>Shade $\frac{3}{4}$</p>  <p>Shade $\frac{1}{3}$</p>  <p>Award ONE mark for any two shapes correctly shaded.</p>	<p>2m</p> <p>or</p> <p>1m</p>	<p>Accept any other clear way of indicating the correct fractions; e.g. marking the appropriate number of sections.</p>
28	<p>Award TWO marks for the correct answer of 13 (crayons)</p> <p>If the answer is incorrect or missing, award ONE mark for evidence of a complete, correct method, e.g.</p> <ul style="list-style-type: none"> • $40 - 17 - 10 =$ (incorrect or no answer) • $17 + 10 = 26$ (<i>error</i>) • $40 - 26 =$ 	<p>2m</p> <p>or</p> <p>1m</p>	<p>(Use the examples of responses given on pages 18-21 to help you determine how many marks can be awarded.)</p>
29	<p>Both signs written correctly as shown:</p> <p>$10 + 5$ $<$ 10×5</p> <p>2×6 $=$ $6 + 6$</p>	<p>1m</p>	<p>Both signs must be correct for the award of the mark.</p> <p>Accept slight inaccuracies in the drawing of the signs, as long as the intention is clear.</p>
30	47 (cherries)	1m	

Qu.	Requirement	Mark	Additional guidance
31	<p data-bbox="172 275 547 304">Clock face ticked as shown:</p> <div data-bbox="199 367 767 913"></div>	1m	<p data-bbox="932 275 1465 342">Accept any other clear way of indicating the correct clock face.</p> <p data-bbox="932 371 1465 517">Do not award the mark if other clock faces are indicated unless it is clear that the correct clock face is the child's final answer.</p>

9. Example responses

9.1 Examples of responses from question 5

Children must show all of the numbers **21**, **23**, **25**, **27** and **29** for the award of the mark. No other numbers must be given as part of the child's final answer.

Ling: 1 mark

Handwritten response for Ling: 21 23 25 27 29. The numbers are written in a box, and a circled '1' is next to it.

Aaron: 0 marks

Handwritten response for Aaron: 21 23 25 27 29 31 33 35 37 39. The numbers are written in a box, and a circled '0' is next to it.

Ling and **Aaron** have both written the correct five numbers in the answer space. **Ling** has not offered any other numbers so **one mark** can be awarded. **Aaron** has written other numbers so his answer is not correct and **no mark** can be awarded.

Kalila: 1 mark

Handwritten response for Kalila: 25 23 27 29 21. The numbers are written in a box, and a circled '1' is next to it.

Umed: 0 marks

Handwritten response for Umed: [scribble] 21 23 29 25. The numbers are written in a box, and a circled '0' is next to it.

Kalila and **Umed** have both written correct numbers in the answer space. **Kalila** has written the correct five numbers in a random order and has not offered any other numbers so **one mark** can be awarded. **Umed** has only written four of the five numbers, so his answer is not fully correct and **no mark** can be awarded.

Liam: 1 mark

Handwritten response for Liam: 20 21 23 25 27 29 30 31 33 35. The numbers are written above a blank box, and a circled '1' is next to the box.

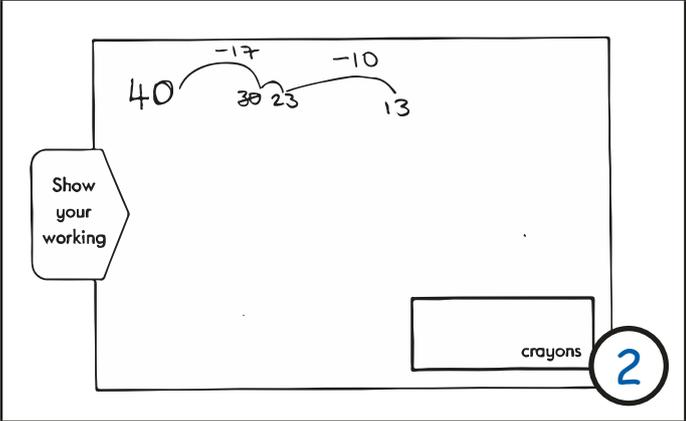
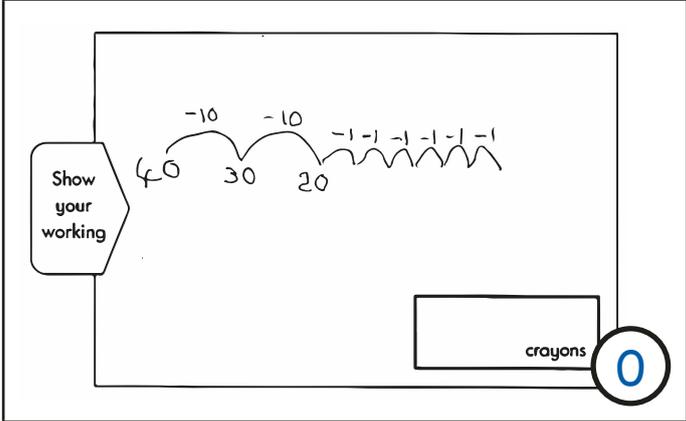
Narinder: 0 marks

Handwritten response for Narinder: 20 21 23 25 29 31 33 35 30. The numbers are written above a blank box, and a circled '0' is next to the box.

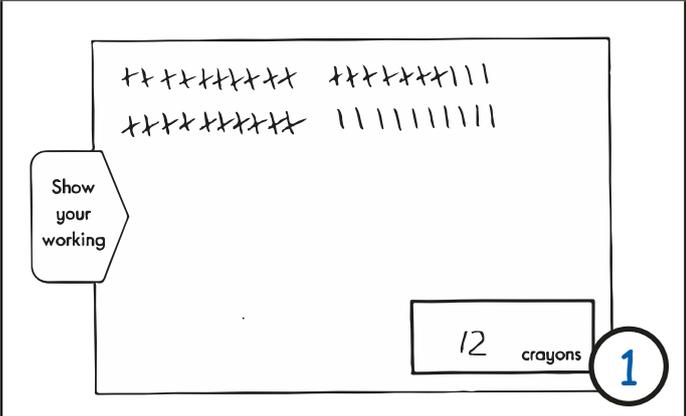
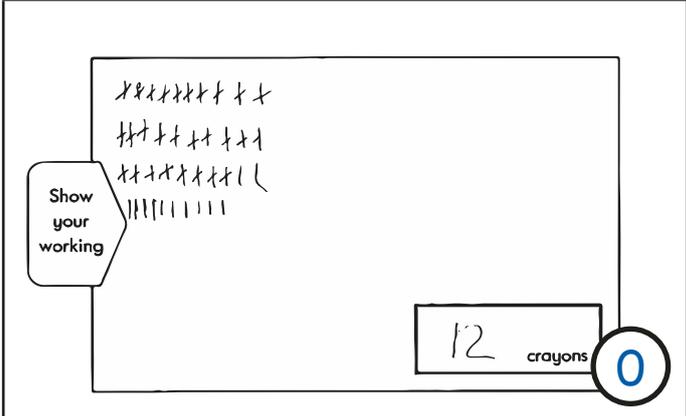
Liam and **Narinder** have both left the answer box blank, but offered their responses elsewhere on the page. **Liam** shows the correct five numbers clearly. Although additional numbers are seen, they are not between the 20 and 30 and can be ignored. **One mark** can be awarded. Although **Narinder** shows the correct five numbers, she has also written other numbers between the 20 and 30 making her final answer incorrect, so **no mark** can be awarded.

9.2 Examples of responses from question 28

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

Peter: 2 marks	Alia: 0 marks
	

Both **Peter** and **Alia** have used a number line to solve the problem. **Peter** has been awarded **two marks** because he has shown the correct final answer of 13 even though it is not within the answer box. **Alia** has recorded an incorrect method. She has used a number line, but after subtracting two tens she has only subtracted 6 instead of 7, so **no mark** can be awarded.

Esne: 1 mark	Nicky: 0 marks
	

Esne and **Nicky** have used pictorial methods and both have shown the incorrect answer '12'. **Esne** has recorded a correct pictorial method, showing 40 tallies and crossing off 27, i.e. $40 - 17 - 10$, but has made an error in counting the remaining tallies. Because her method is correct, **Esne** can be awarded **one mark**. **Nicky** has also recorded a pictorial method. She has shown 40 tallies, but has crossed off 28 so her method is not correct and **no mark** can be awarded.

Examples of responses from question 28 continued

Shay: 1 mark

Handwritten work for Shay: $40 - 17 - 10 = 13$. The final answer box contains "13 crayons". A "Show your working" label is present on the left. A circled "1" indicates the mark awarded.

Charlie: 0 marks

Handwritten work for Charlie: $40 - 17 - 10 = 13$. The final answer box contains "13 crayons". A "Show your working" label is present on the left. A circled "0" indicates the mark awarded.

Shay and **Charlie** have both transposed digits in the final answer so two marks cannot be awarded. In **Shay's** working, 17 can be considered a reversal of a digit because the 17 is clearly seen in the question. Consequently her method ($40 - 17 - 10 =$) is complete and correct and can be awarded **one mark**. In his answer box, **Charlie** may be trying to write 13, but transposed digits are not acceptable. Since he has not shown any working, **no mark** can be awarded.

Alex: 1 mark

Handwritten work for Alex: $40 - 17 - 10 =$. The final answer box contains "~~13~~ crayons". A "Show your working" label is present on the left. A circled "1" indicates the mark awarded.

Erin: 0 marks

Handwritten work for Erin: $40 - 17 = 30$ and $30 - 10 =$. The final answer box is empty. A "Show your working" label is present on the left. A circled "0" indicates the mark awarded.

Alex and **Erin** have both crossed out some of their work. **Alex** has written the correct answer but has crossed it out and has not replaced it. However, he can be awarded **one mark** for a complete, correct method. In comparison, **Erin** had a complete method (albeit with an arithmetic error and no final answer) but she crossed out the second part ($30 - 10$) resulting in an incomplete method so **no mark** can be awarded.

Examples of responses from question 28 continued

Arnav: 1 mark

Arnav's response shows a partial subtraction calculation: $40 - 27 =$. A box for the answer contains the word "crayons". The response is marked with a 1.

Oliwa: 0 marks

Oliwa's response shows a partial subtraction calculation: $40 - 22$. A box for the answer contains the word "crayons". The response is marked with a 0.

Arnav and **Oliwia** both recorded a calculation but did not complete it. Even though the first part of **Arnav's** method is not visible, we can assume that he has added 17 and 10 as he shows the total 27 being subtracted from 40 in the written part of his method. **One mark** can be awarded for a complete, correct method, despite the omission of a final answer. **Oliwia** has not shown the addition of 17 and 10, so it is not clear where her '22' has come from. We are not able to assume that she has a correct method so **no mark** can be awarded.

Harry: 1 mark

Harry's response shows a complete addition calculation: $17 + 10 = 27$ with a carry of 3. A box for the answer contains "12 crayons". The response is marked with a 1.

Lucia: 0 marks

Lucia's response shows an addition calculation: $10 + 17 = 26$ and a subtraction calculation: $26 - 40 = 26$. A box for the answer contains "26 crayons". The response is marked with a 0.

Harry and **Lucia** both added 10 and 17 and then attempted a subtraction. **Harry** has subtracted 27 from 40 so **one mark** can be awarded for a complete, correct method. **Lucia** made an arithmetic error when adding 10 and 17 to reach 26. This arithmetic error need not affect the method mark, but **Lucia** went on to subtract 40 from 26 which is an incorrect method. Consequently **no mark** can be awarded. (If **Lucia** had reached the answer of 14, we would assume that she intended to subtract 26 from 40, and **one mark** would be awarded for a complete, correct method.)

Examples of responses from question 28 continued

Anna: 1 mark

40 - 20 = 20 - 7 =

Show your working

crayons 1

Leroy: 0 marks

~~40 - 17 - 10 =~~

Show your working

crayons 0

Anna and **Leroy** both recorded a calculation with no final answer. **Anna** shows a complete, correct method of $40 - 27$ so **one mark** can be awarded. **Leroy** also recorded a complete, correct method of $40 - 17 - 10$, but has crossed it out so **no mark** can be awarded.

Tom: 1 mark

40 - 19 = 21

21 - 10 = 11

Show your working

11 crayons 1

Fleur: 0 marks

40 - 10 - 10 = 20

Show your working

20 crayons 0

Tom and **Fleur** have both misread numbers in the question. **Tom** has misread 17 as 19. As all the arithmetic is correct and the question has not been made easier, **one mark** can be awarded for the method. **Fleur** has misread 17 as 10 and subtracted 10 twice. As her misread makes the question easier, **no mark** can be awarded.

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