

2023 national curriculum tests  
Key stage 2

**Mathematics**  
**Amendments to the mark schemes (AMS)**

**Modified large print (MLP) and Braille**



Standards  
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## Introduction

This guidance details the amendments made to the mark schemes for questions which have been adapted, or replaced, in the modified large print (MLP) version of the key stage 2 mathematics test materials.

This guidance must be used in conjunction with the standard version of the key stage 2 mathematics mark schemes. Refer to the standard mark schemes when marking the MLP test papers unless an alternative is given in this guidance.

## Amendments to the mark scheme MLP

Amendments to the standard test mark schemes are only provided where amendments to a question are such that the question cannot be marked using the standard test mark scheme.

Amendments to the mark schemes are not provided where the only change has been to further divide the question into subsections or where the layout of the question is different.

The mark schemes have been amended in some respects for the following questions:

Paper 1	20, 25, 29, 33
Paper 2	1, 9, 14, 20
Paper 3	3, 7, 8, 12, 18a, 18b

## General guidance to be applied throughout the MLP papers

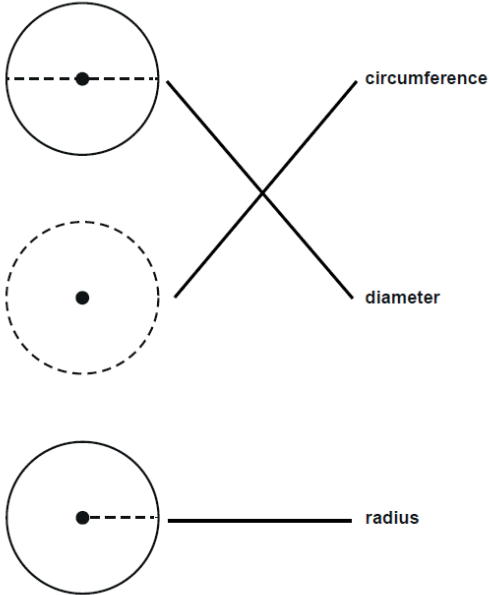
- You should make every effort to understand what the pupil has written in an answer, without reading into the answer anything that the pupil did not intend.
- Some pupils with visual impairment find it difficult to get their answers across clearly. It may take you longer to read their answers. Apply the mark schemes, but be sympathetic to their difficulties.
- Pupils with visual impairment find it difficult to draw accurately. Often thick pens or pencils are used by these pupils. You should make every effort to be fair in marking these questions and take into account what appears to be the pupil's intention.
- Unless otherwise indicated in this document, there should be an increased tolerance level for all drawing and measuring. In general, pupils will only be expected to measure lengths to the nearest 0.5 cm and angles to the nearest 5°.
- If children have missed any answer lines or spaces within the text, their answers may be elsewhere on the page. Any unambiguous indication of the correct answer should be credited, working within the parameters of the mark scheme.
- Questions that appear as horizontal tick boxes in the standard version of the test may have been changed to vertical in the MLP version, in order to make it easier for pupils to track across the page. The correct answer will be the same as in the standard mark schemes.
- Markers should contact their supervisors if they have any problems applying the mark schemes to MLP scripts, or with specific responses. All supervisors have contact details of markers who will provide specialist advice.
- Accept numbers greater than 999 written without a comma, with space instead of a comma or with any clear indication.
- Please note that due to modifications to question 1 in paper 2, the National Curriculum Reference (NCR) has changed for the MLP version of this question. The primary NCR for Q1 for MLP Paper 2 is 4M4b. There is a mark scheme amendment for this question.
- Please note that due to modifications to question 20 in paper 2, the National Curriculum Reference (NCR) has changed for the MLP version of this question. The primary NCR for Q20 for MLP Paper 2 is 6C8. There is a mark scheme amendment for this question.

- **Amendments to mark schemes for Paper 1: arithmetic**

Please use the standard mark schemes to mark Paper 1: arithmetic.

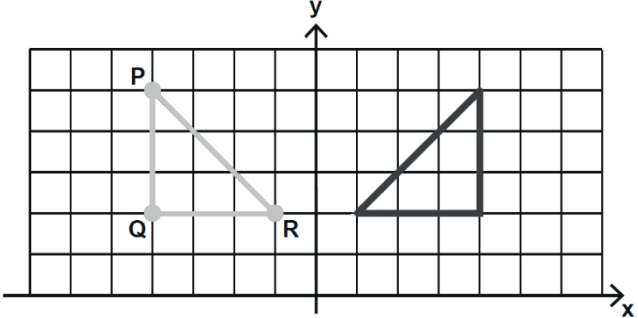
For questions 20, 25, 29 and 33 the standard mark schemes expect a 'formal method' for long multiplication or long division. If the answer is incorrect, visually impaired pupils should be credited the method mark if they have used **any** appropriate method with no more than **ONE** arithmetic error; a formal method is not required. Working must be carried through to reach a final answer for the award of **ONE** mark.

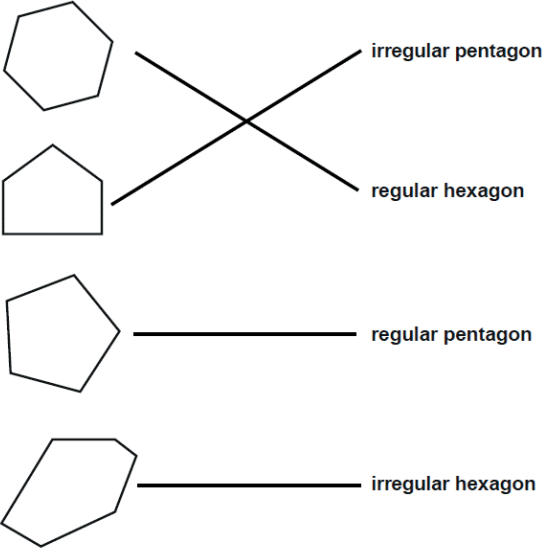
## Amendments to mark schemes for Paper 2: reasoning (MLP)

Qu.	Requirement	Mark	Additional guidance
1	11:05	1m	<p>Award <b>ONE</b> mark for the correct time selected.</p> <p>Accept alternative unambiguous positive indication of the correct answer.</p>
9	<p>Award <b>ONE</b> mark for three names matched correctly, as shown:</p> 	1m	<p>Lines need not touch the names and diagrams, provided the intention is clear.</p> <p><b>Do not</b> accept a circle matched to more than one label.</p>

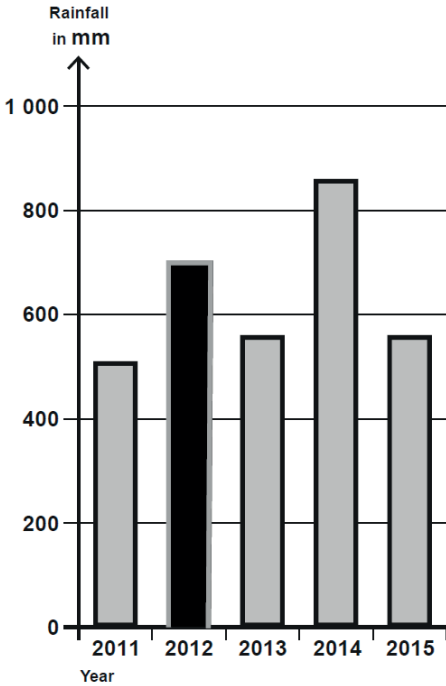
Qu.	Requirement	Mark	Additional guidance
14	Award <b>ONE</b> mark for an answer in the range of $125^\circ$ to $135^\circ$ inclusive.	<b>1m</b>	
20	Award <b>ONE</b> mark for each correct answer. a) 3 b) 5	<b>Up to 2m</b>	Accept the sum rewritten with the correct missing digits.

## Amendments to mark schemes for Paper 3: reasoning (MLP)

Qu.	Requirement	Mark	Additional guidance																									
3	<p>Diagram completed, as shown:</p> 	1m	<p>Ignore any attempt to label the reflected triangle.</p> <p>Accept slight inaccuracies in drawing, provided the intention is clear.</p>																									
7	<p><math>10\frac{1}{2}</math></p> <p>OR</p> <table border="1" data-bbox="288 1037 810 1552"> <tbody> <tr> <td><math>\frac{1}{2}</math></td> <td>1</td> <td><math>1\frac{1}{2}</math></td> <td>2</td> <td><math>2\frac{1}{2}</math></td> </tr> <tr> <td>3</td> <td><math>3\frac{1}{2}</math></td> <td>4</td> <td><math>4\frac{1}{2}</math></td> <td>5</td> </tr> <tr> <td></td> <td>6</td> <td><math>6\frac{1}{2}</math></td> <td>7</td> <td><math>7\frac{1}{2}</math></td> </tr> <tr> <td></td> <td></td> <td>9</td> <td><math>9\frac{1}{2}</math></td> <td>10</td> </tr> <tr> <td><math>10\frac{1}{2}</math></td> <td></td> <td></td> <td>12</td> <td><math>12\frac{1}{2}</math></td> </tr> </tbody> </table>	$\frac{1}{2}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$	3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5		6	$6\frac{1}{2}$	7	$7\frac{1}{2}$			9	$9\frac{1}{2}$	10	$10\frac{1}{2}$			12	$12\frac{1}{2}$	1m	<p>Also accept equivalent decimal answers, e.g. 10.5 or 10.50.</p> <p>Accept correct answers written in the correct place on the grid.</p>
$\frac{1}{2}$	1	$1\frac{1}{2}$	2	$2\frac{1}{2}$																								
3	$3\frac{1}{2}$	4	$4\frac{1}{2}$	5																								
	6	$6\frac{1}{2}$	7	$7\frac{1}{2}$																								
		9	$9\frac{1}{2}$	10																								
$10\frac{1}{2}$			12	$12\frac{1}{2}$																								

Qu.	Requirement	Mark	Additional guidance
8	<p>Award <b>ONE</b> mark for the four shapes matched correctly, as shown:</p> 	1m	<p>Lines need not touch the shapes and names, provided the intention is clear.</p> <p><b>Do not</b> accept any shape that has been matched to more than one name.</p>
12	<p>Award <b>TWO</b> marks for two correctly identified nets: Q and S</p> <p>If the answer is incorrect, award <b>ONE</b> mark for:</p> <p>the two correct letters and one incorrect letter</p> <p><b>OR</b></p> <p>one correct letter and no incorrect letters</p>	Up to 2m	<p>Accept alternative unambiguous positive indication of the correct answer.</p>



Qu.	Requirement	Mark	Additional guidance												
18a	<p>Award <b>TWO</b> marks for the correct answer of 1,543.</p> <p>If the answer is incorrect, award <b>ONE</b> mark for evidence of an appropriate method, e.g.</p> <ul style="list-style-type: none"> <li>• <math>1,452 + 1,669 + 1,508 = 4,629</math> <math>4,629 \div 3</math></li> </ul> <p><b>OR</b></p> <ul style="list-style-type: none"> <li>• <math>1,452 + 1,669 + 1,508 = 4619</math> (error) <math>4619 \div 3</math></li> </ul> <p><b>OR</b></p> <p>Award <b>ONE</b> mark for sight of 4629 (as evidence of the sum of sunshine hours).</p>	Up to 2m	<p>Answer need not be obtained or rounded for the award of <b>ONE</b> mark.</p> <p>Any acceptable rounding or truncating does not negate an appropriate method. Any value which does not result from correct rounding or truncating implies an additional step not shown.</p>												
18b	<p>Award <b>ONE</b> mark for drawing the bar in the range of 650 mm to 750 mm, e.g.</p>  <table border="1" data-bbox="311 1209 758 1892"> <caption>Rainfall in mm (2011-2015)</caption> <thead> <tr> <th>Year</th> <th>Rainfall (mm)</th> </tr> </thead> <tbody> <tr> <td>2011</td> <td>500</td> </tr> <tr> <td>2012</td> <td>700</td> </tr> <tr> <td>2013</td> <td>550</td> </tr> <tr> <td>2014</td> <td>850</td> </tr> <tr> <td>2015</td> <td>550</td> </tr> </tbody> </table>	Year	Rainfall (mm)	2011	500	2012	700	2013	550	2014	850	2015	550	1m	Ignore the width of the bar.
Year	Rainfall (mm)														
2011	500														
2012	700														
2013	550														
2014	850														
2015	550														

# 2023 national curriculum tests

## Key stage 2

### **Mathematics**

### **Amendments to the mark schemes (AMS)**

### **Braille**



Standards  
& Testing  
Agency

## Introduction

This guidance details the amendments made to the mark schemes for questions which have been adapted, or replaced, in the braille version of the key stage 2 mathematics test materials.

The standard version of the key stage 2 mathematics mark schemes, should be used in conjunction with the additional guidance in this document. Markers should refer to the standard mark schemes when marking the braille test papers unless an alternative is given in this guidance.

## Amendments to the mark scheme Braille

Amendments to the standard test mark schemes are only provided where amendments to a question are such that the question cannot be marked using the standard test mark scheme.

Amendments to the mark schemes are not provided where the only change has been to further divide the question into subsections or where the layout of the question is different.

The mark schemes have been amended in some respects for the following questions:

Paper 1	20, 25, 29, 33
Paper 2	1, 9, 14, 15, 20
Paper 3	2, 3, 7, 8, 12, 18a, 20, 22, 23

## General guidance to be applied throughout the braille papers

- You should make every effort to understand what the pupil has written in an answer, without reading into the answer anything that the pupil did not intend.
- Some pupils with visual impairment find it difficult to get their answers across clearly. It may take you longer to read their answers. Apply the mark schemes, but be sympathetic to their difficulties.
- Pupils with visual impairment find it difficult to draw accurately. Often thick pens or pencils are used by these pupils. You should make every effort to be fair in marking these questions and take into account what appears to be the pupil's intention.
- Unless otherwise indicated in this document, there should be an increased tolerance level for all drawing and measuring. In general, pupils will only be expected to measure lengths to the nearest 0.5 cm and angles to the nearest 5°.
- Any unambiguous indication of the correct answer should be credited.
- Some braille questions are asked differently to the standard version, but the differences are sufficiently small that you should still be able to apply the standard mark scheme, for example, pupils are asked to write rather than circle the answer.
- Accept numbers greater than 999 written without a comma, with space instead of a comma or with any clear indication.
- Please note that due to modifications to question 1 in paper 2, the National Curriculum Reference (NCR) has changed for the Braille version of this question. The primary NCR for Q1 for Braille Paper 2 is 4M4b. There is a mark scheme amendment for this question.
- Please note that due to modifications to question 20 in paper 2, the National Curriculum Reference (NCR) has changed for the Braille version of this question. The primary NCR for Q20 for Braille Paper 2 is 6C8. There is a mark scheme amendment for this question.

## Amendments to mark schemes for Paper 1: arithmetic

Please use the standard mark schemes to mark Paper 1: arithmetic.

For questions 20, 25, 29 and 33 the standard mark schemes expect a ‘formal method’ for long multiplication or long division. If the answer is incorrect, visually impaired pupils should be credited the method mark if they have used **any** appropriate method with no more than **ONE** arithmetic error; a formal method is not required. Working must be carried through to reach a final answer for the award of **ONE** mark.

## Amendments to mark schemes for Paper 2: reasoning (Braille)

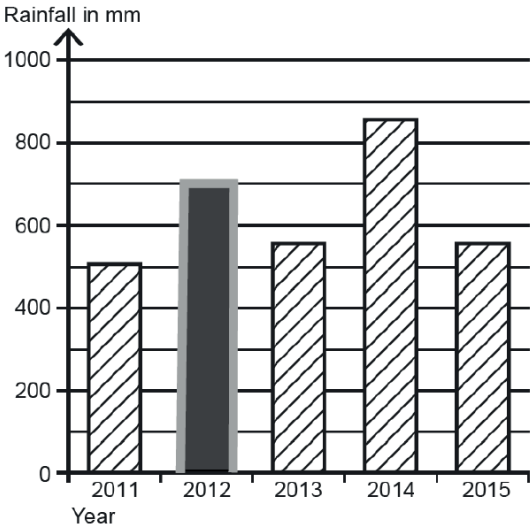
Qu.	Requirement	Mark	Additional guidance
1	Q <b>OR</b> Award <b>ONE</b> mark for the correct time written: 11:05	1m	
9	Award <b>ONE</b> mark for three names matched correctly, as shown: Circumference = R, Diameter = P, Radius = Q <b>OR</b> Circumference is the name of the dashed line in circle <u>R</u> Diameter is the name of the dashed line in circle <u>P</u> Radius is the name of the dashed line in circle <u>Q</u> <b>OR</b> R P Q	1m	<b>Do not</b> accept a circle matched to more than one name.
14	Award <b>ONE</b> mark for an answer in the range of $125^\circ$ to $135^\circ$ inclusive.	1m	

Qu.	Requirement	Mark	Additional guidance
15	<p>All four fractions correctly written as follows:</p> <p><math>\frac{1}{3}</math> is S</p> <p><math>\frac{1}{6}</math> is R</p> <p><math>\frac{1}{4}</math> is P</p> <p><math>\frac{1}{2}</math> is Q</p> <p><b>OR</b></p> <p>S</p> <p>R</p> <p>P</p> <p>Q</p>	1m	<p>All four fractions must be correct for the award of the mark.</p> <p>Misreads are not allowed.</p> <p>Accept equivalent fractions.</p>
20	<p>Award <b>ONE</b> mark for each correct answer.</p> <p>a) 3</p> <p>b) 5</p>	Up to 2m	Accept the sum rewritten with the correct missing digits.

## Amendments to mark schemes for Paper 3: reasoning (Braille)

Qu.	Requirement	Mark	Additional guidance
2	R OR 80 306	1m	
3	Diagram completed, as shown: 	1m	Ignore any attempt to label the reflected triangle.  Accept slight inaccuracies in drawing, provided the intention is clear.
7	$10\frac{1}{2}$	1m	Also accept equivalent decimal answers, e.g. 10.5 or 10.50.
8	Award <b>ONE</b> mark for the four shapes matched correctly, as shown: a) Q b) S c) P d) R	1m	<b>Do not</b> accept any shape that has been matched to more than one name.
12	Award <b>TWO</b> marks for two correctly identified nets: Q S  If the answer is incorrect, award <b>ONE</b> mark for one correct answer and no incorrect answers.	2m	Accept alternative unambiguous positive indication of the correct answer.



Qu.	Requirement	Mark	Additional guidance
18a	<p>Award <b>ONE</b> mark for drawing the bar in the range of 650 mm to 750 mm, e.g.</p> 	1m	Ignore the width of the bar.
20	<p>Award <b>TWO</b> marks for the three correct letters given as shown, as shown:</p> <p>Q R S</p>	Up to 2m	The correct letters can be given in any order for the award of the mark.
22	<p>Number machine boxes completed correctly as shown:</p> <p>P 8 Q <math>\times 5</math> R <math>\div 2</math> S 20</p>	1m	
23	<p>Award <b>TWO</b> marks for two correct answers, as shown:</p> <p>(a) 0.15 (b) 0.625</p> <p>Award <b>ONE</b> mark for one correct answer.</p>	Up to 2m	

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