Lancashire Curriculum Tests

Year 2 – End of Summer Term

(Meeting end of year expectations)

Mathematics test administration guide and mark schemes

Paper 1: arithmetic

Paper 2: reasoning



Administration guide

Format • This test consists of two papers, an arithmetic paper and a reasoning paper. • It is expected that the arithmetic paper will take approximately 20 minutes and the reasoning paper will take approximately 35 minutes to complete. These timings are simply a guide, not a strict limit. • The reasoning paper contains five aural questions, the script for which can be found in this booklet. • It is at your discretion to choose when or if pupil(s) require a break during each test or whether, if appropriate, to stop the test early. • The test may be administered as a class or in groups, whichever is deemed most suitable. The assistance guidance should be followed in either situation. Each pupil will need the equipment specified below: **Equipment** a pencil • a ruler showing centimetres • a rubber (optional). If rubbers are not provided, you should tell pupils that they may cross out any answers they wish to change. In addition, for these summer term tests, children are permitted to make use of the practical equipment they have available to them in lessons. This includes, but is not limited to: • base 10 equipment bundles of straws • place value counters arrow cards number lines • ten frames • counters / cubes Pupils are **not** allowed to use calculators in the test. **Assistance** • You must ensure that nothing you say or do during a test could be interpreted as giving pupils an advantage, e.g. indicating that an answer is correct or incorrect, or suggesting the pupil looks at an answer again. If a pupil requests it, a question may be read to them on a one-to-one basis. However, adults can only read numbers and not mathematical symbols. This is to ensure that pupils are not given an unfair advantage by having the function inadvertently explained by reading its name.

Administering the aural questions

Instructions	 Explain to the pupils that you will read aloud some questions for them to answer. Explain that you will read each question twice only, leaving a short gap in between. Tell the pupils that they must listen very carefully when you read the questions. Ask the pupils to turn to the appropriate page of the booklet. Explain that there is a practice question on this page. When reading the question to the pupils, remember to repeat the question. Repeat the bold text only. This is a practice question for us to do together. (You may help pupils locate the question where necessary.) 			
	Look at the picture of the place value counters.			
	What number is represented?			
	Write your answer in the box.			
	 Before proceeding, ensure that the pupils know where they should have written their answer and the number they should have written and discuss methods the pupils used to work out their answer. Allow the pupils to change their answers to the correct one by crossing out or rubbing out, to make sure they know how to correct errors. Explain to the pupils that you will now read out questions 1 to 5. Tell the pupils that they should try to answer all of the questions. They should write their answer in the correct place for that question. 			
	 in the correct place for that question. Remind the pupils that you can't help them answer these next questions. Tell the pupils that they should try to work them out on their own. If they can't answer a question, they should move onto the next one. Ask the pupils if they have any questions they want to ask you before you start. 			
	 Then read questions 1 to 5, allowing time for pupils to write their answers. When reading the question to the pupils, remember to repeat the question. Repeat the bold text only. At the end of each question, allow sufficient time for pupils to complete what they can. 			
Question 1	Question 1			
	Write the number seventy two using digits.			
	Write your answer in the box.			
Question 2	Turn the page in your booklet and find question 2. Question 2 Sam is facing the window. He makes a quarter turn anti-clockwise.			
	What is he facing now?			
	Write your answer in the box.			
Question 3	Question 3			
	What temperature does this thermometer show?			
	Write your answer in the box.			
Question 4	Question 4 Put a ring around the fraction that is the greatest in this set.			
Question 5	Question 5			
	Which of these amounts would be the capacity of this medicine spoon?			
	Put a ring around the amount.			

General marking principles

The marking guidance within these tests directly reflects the guidance for the national end of key stage tests.

Teachers will use their judgement in deciding whether the answer corresponds with details in the 'Requirement' column of the mark scheme. Reference will also be made to the 'Additional guidance' column.
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.
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.
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: 1 mark is awarded if the correct method is correctly implemented with the misread number, provided this does not simplify the mathematics.
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.
Always award the mark for a final response that is correct.
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.
'Follow through' marks for an answer may only be awarded when specifically stated in the mark scheme.
No marks will be awarded for crossed-out answers or working.
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.
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 '\text{\text{01}}' is given, then this should be awarded the mark.

11. The pupil transposes digits in their answer.

A pupil transposes digits by reversing their order e.g. '83' instead of '38'.

An answer with transposed digits should not be awarded the mark; for example, a response of '16' or '01' when the answer is '61' should not be marked as correct.

Mark schemes for Paper 1: arithmetic

Qu.	Requirement	Mark	Additional guidance
P	10		
1	47	1m	
2	28	1m	
3	7	1m	
4	80	1m	
5	14	1m	
6	6	1m	
7	34	1m	
8	12	1m	
9	40	1m	
10	68	1m	
11	30	1m	
12	22	1m	
13	15	1m	
14	70	1m	
15	23	1m	
16	1	1m	
17	2	1m	
18	18	1m	
19	50	1m	
20	6	1m	
21	30	1m	
22	4	1m	
23	9	1m	
24	83	1m	
25	7	1m	

Total of 25 marks

Mark schemes for Paper 2: reasoning

Qu.	Requirement	Mark	Additional guidance
Р	32		3
1	72	1m	
2	sofa	1m	Accept sofa circled or ticked with no other items indicated.
3	19°C	1m	
4	$\frac{1}{2}$ $\frac{1}{4}$ $\frac{1}{3}$ $\left(\frac{3}{4}\right)$	1m	Accept any other unambiguous indication of the correct answer, e.g. $\frac{3}{4}$ ticked.
5	5ml 50ml 100ml 1 litre	1m	Accept any other unambiguous indication of the correct answer, e.g. 5ml ticked.
6a	9	1m	
6b	3cm	1m	
7	33 pages	1m	
8			Accept any other clear indication of the correct shape, such as circling.
9	4 boxes	1m	
10	With stripes With no stripes	1m	Accept other ways of describing stripes and no stripes, e.g. wiggly lines and no wiggly lines.
44		4	
11a	12 quarters	1m	
11b	3 oranges	1m	
12	Award ONE mark for an explanation that recognises	1m	Do not award the mark for just
	the answer to $30 + 40$ is related to $3 + 4 = 7$		writing the answer 70.
	For example,		
	'30 + 40 is 3 tens plus 4 tens. If 3 + 4 = 7 then 3 tens		
	plus 4 tens must be 7 tens which is 70.'		
	Or		
	'Both of the numbers have been made ten times greater, so the answer will be ten times greater, which		
	is 70.'		

13	odd	oven	1m	Both numbers must be crossed for
	odd	even		the award of ONE mark .
	87	14		Accept other unambiguous
	49			indications of the correct answers,
	35	⁷⁶ ¾		e.g. both 58 and 41 circled or ticked.
	35 %	. 22		-
	93	90		
14	9 stickers		1m	
15a	30 books		1m	
4=1	_			
15b			1m	Accept the half square representing 5 books as long as the height is
				clearly less than the height of a full
				square.
	Class 1 Class 2 Class 3	Class 4		
	OR			
	Class 1 Class 2 Class 3	Class 4		
16	18 balls		1m	
17 18	83 bricks Award TWO marks for all	I four correctly matched	1m	
10	Awaru I WO IIIai KS 101 al	Trour correctly matched	up to 2m	
	5 x 4			
	3,4			
		\checkmark		
	4 x 2			
	\searrow			
	2 x 4			
	/			
	3 x 3			
	Award ONE mark for any	three correctly matched.		
19		answers drink and dice in	1m	
19	any order.	answers utilik and dice in	TIM	

20		1m	
21	15 minutes	1m	
22	Award ONE mark for both numbers correctly	1m	
	identified.		
	32 (42) (39) 49 45		
23	£43	1m	
24	23	1m	
25	5kg	1m	
26 a	farm	1m	
26b	34	1m	
27	30 mins	1m	
28	68cm	1m	
29	Award TWO marks for all three answers correctly	up to	
	identified	2m	
	Ben 74p		
	Sam 40p		
	Lin 34p		
	Award ONE mark for any two correct answers.		

Total of 35 marks