

Key Stage 2

Mathematics Reasoning: Pack 1 Test 1b

Name			
Date			
(+)	(-)	\mathbf{X}	$\left(\begin{array}{c} \bullet \\ \bullet \end{array} \right)$





Name: Date: 33 total marks Key Stage 2 Maths Reasoning: Pack 1 Test 1b twinkl 1) Order the following from smallest to largest: $\frac{7}{4}$ $\frac{8}{5}$ $\frac{3}{2}$ Smallest Largest 1 mark 2) 35% of the 20 children in a class are boys. How many boys are there in the class? Answer: 1 mark 3) The sequence 4, 7, 10, 13, 16,... can be expressed as 3n+1, where n is the term. a) Express the sequence 6, 10, 14, 18,... where n is the term: Answer: 1 mark b) What is the 10th term? Answer: 1 mark





4) A small bottle of lemonade is h_{glf}^2 the size of a large bottle. The small bottle costs 80p and the large bottle costs £1.50.	
Amir buys 4 small bottles. How much would he save if he buys the same amount of lemonade in large bottles?	
	2 marks
5) In the number 348 902.53, in what place are the digits 3?	
Answer:	
Answer:	2 marks
6) Write the number 532 in Roman numerals:	
Answer:	1 mark
7) Write the labels for the following shapes in the Carroll Diagram:	
A B C D	
Has 6 or more vertices Has less than 6 vertices	
Has at least one curved face	
Has no curved faces	2 marks
	Total for this page



11) These thermometers show the temperature inside and outside of a school at 9am.

Inside	
Outside	
a) What is the inside and outside temperature?	
Inside: Outside:	1 mark
b) What is the difference in temperature between the inside and the outside?	
Answer:	1 mark





12) Here is a rectangle:



A new rectangle is drawn, which is twice the length and twice the width of the original rectangle.

a) Draw the new rectangle:

Jack says that the area of the new rectangle will be twice the area of the original.

b) Explain why Jack is not correct:



1 mark





13) Complete this division calculation by filling in the missing numbers:

			2	4	6
3	7		1	_	2
		7	4		
		1	7	_	
		1	4	8	
			2	2	2
			2	2	2
			0	0	0

14) A supermarket sells packs of 6 cans of lemonade. Each can contains 330ml of lemonade.

How many litres of lemonade are there in a pack of 6 cans?

Answer:	(l)	
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15) Here is a bus timetable:

Darlington - Sunderland	via I	Newton	Aycliffe	, Ferryhi	ill Servi	ice 217
Sunday						
DARLINGTON, Bus Station		19:40	20:40	21:40		22:40
Newton Aycliffe, Stephenson Way/Pease Wa	ıy	20:03	21:03	22:03		23:03
Chilton, Wheatsheaf		20:13	21:13	22:13		23:18
Coxhoe, Police Station			21:39		23:09	
Bowburn, Garage			21:44		23:14	
Houghton-le-Spring, Bus Station			22:13			
SUNDERLAND, Park Lane Bus Station			22:29	•••		

a) Find the last direct bus from Newton Aycliffe to Bowburn. When does it leave Darlington?

b) How long does the last bus from Darlington to Chilton take?

Answer:

Answer:





16) Here is the number of goals scored by the top 8 teams in the Premier League during the season 2014-15:

Chelsea	73
Manchester City	83
Arsenal	71
Manchester United	62
Tottenham Hotspur	58
Liverpool	48
Southampton	54
Swansea	46

What is the mean number of goals scored by these teams?

17) Write the number six hundred and nine thousand, two hundred and seventeen

Answer:

2 marks

1 mark





in numbers.





10

18) Here is a pie chart representing the number of people who saw the 3 most popular films





11

20) A school orders 26 packs of pencils. Each pack contains 12 boxes of 12 pencils. The pencils are to be shared equally among the 14 classes in the school. To the nearest whole number, how many pencils will each class be given?



12

Answer:





Answer Sheet: Key Stage 2 Maths Reasoning - Pack 1 Test 1b

question	answer	marks	notes
1.			
	$\frac{3}{2}$ $\frac{8}{5}$ $\frac{7}{4}$	1	
2.			
	7	1	
3.			
а	4n+2	1	
b	42	1	1 mark if correct answer based on answer to 3a
4.			
	20p or £0.20	2	
5.			
	Hundred thousands Hundredths or 100,000s and 0.01s	2	1 mark for one correct.
6.			
	DXXXII	1	
7.			
	Has 6 or more vertices Has less than 6 vertices Has at least one curved face A Has no curved faces B D	2	1 mark for 3 correct and no more than 1 incorrect
8.			
	64 balls	2	1 mark for incorrect answer but only 1 mistake in calculation 1 mark for calculating 24 blue balls but not giving the total of 64.
9.			

13



Answer Sheet: Key Stage 2 Maths Reasoning - Pack 1 Test 1b



question	answer	marks	notes				
9.							
	56°	1					
10.							
	0.725kg or 725g	1					
11.							
а	19°C and -7°C	1	1 mark for correct calculation from				
b	26°C	1	incorrect temperature readings				
12.							
а	10 x 4 rectangle	1	1 mark is awarded for any explanation that shows why the area is not twice the				
b	The area is 4x the area of the original.	1	original area.				
13.							
	$ \begin{array}{r} 2 4 6 \\ 3 7 9 1 0 2 \\ \overline{7 4} \\ 1 7 0 \\ \underline{1 4 8} \\ 2 2 2 \\ \underline{2 2 2} \\ 0 0 0 \end{array} $	2	1 mark for 9 and 1 mark for 0's				
14.							
	1.98 litres	1	Do not accept 1980 ml or 1 litre 980 ml				
15.							
а	2040	1					
b	38 minutes	1					
16.							
	61.875	2	1 mark for incorrect answer, but only 1 mistake in calculation.				

14

Answer Sheet: Key Stage 2 Maths Reasoning - Pack 1 Test 1b



question	answer	marks	notes
17.			
	609 217	1	
18.			
	45	1	(allow 44 – 46) 1 mark for 42, 43, 47, 48
19.			
	(-4, 1) and (5, -2) or (-3, 1) and (4, -2) or (-2, 1) and (3, -2) or (-1, 1) and (2, -2)	2	2 marks for both correct answers. Allow any answer where the x coordinates of A and C add to 1 and the y coordinates add to -1. 1 mark for having correct x coordinates or y coordinates.
20.			
	267 pencils	3	3 marks for correct answer rounded to 267. 2 marks for correct calculation but answer not rounded (267.428571) 1 mark for incorrect answer but correct calculation with 1 error. (26 x 12 x 12)/14
		Total 33	

