

Key Stage 2

Mathematics Reasoning: Pack 1 Test 1b

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





Name:									D	ate:			35 total marks
Key Stage	2 Matl	ns Rea	asonir	ıg: F	ack	1 Tes	st 1b						twinkl
1) Order the fo	llowing fr	rom sma	llest to	larges	t:								
7	8	3											
			Smaller						\square		. ר	avaort	
			Smalles								י (-	Largest	1 mark
2) 35% of the	20 childr	en in a	class are	e boys	. How	/ many	boys a	ire ther	re in t	he clo	ass?		
							Ar	lswer:					1 mark
3) The sequen	.ce 4, 7, 1	0, 13, 1	6, car	ı be e	xpress	sed as 3	8n+1, v	vhere r	ı is th	e terr	n.		
a) Express t	the seque	nce 6, 1	0, 14, 1	8, v	vhere	n is the	term:						
							Ar	lswer:	\bigcap				1 mark
)	
b) What is	the 10th	term?											
							An	swer:					1 mark
		6 6			0 / 0								
c) What is	the value	ofnift	he answ	ier is 2	26?								
			1 mark										
													Total for this page

4) A small bottle of lemonade is half 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 places 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 9 a.m.

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:







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

	246
37	_ 1 _ 2
	74
	17_
	148
	222
	222
	000

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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1 mark

2 marks





15) Here is a bus timetable:

Darlington - Sunderland v	ia N	ewton	Aycliffe	, Ferryhi	ill Servi	ice 217
Sunday						
DARLINGTON, Bus Station		19:40	20:40	21:40		22:40
Newton Aycliffe, Stephenson Way/Pease Way	J	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	Darling	yton	to	Chilton	take?
-		<u> </u>					J	-	,			

c) How long is the shortest possible journey?

Answer:

8

Answer:

Answer:



1 mark

1 mark

16) Here is the number of goals scored by the top 8 teams in the Premier League during the football season.

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	e number	six	hundred	and	nine	thousand,	two	hundred	and	sevente	en
in numera	ls.										

Answer:

Answer:



2 marks





If 340 people watched 'Inside Out', estimate how many people watched 'Minions'.

Answer:

10



19) A parallelogram is drawn on this grid:



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:







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			
С	n = 6	1				
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 C	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.			

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 incorrect temperature readings		
b	26ºC	1			
12.					
а	10 x 4 rectangle	1	1 mark is awarded for any explanation that shows why the area is not twice the original area.		
b	The area is 4x the area of the original.	1			
13.					
	$ \begin{array}{r} 2 4 6 \\ 3 7 9 1 0 2 \\ $	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			
с	5 mins (Coxhoe, Police Station to Bowburn, Garage)	1			
16.					



question	answer	marks	notes		
16.					
	61.875		1 mark for incorrect answer, but only 1 mistake in calculation.		
17.					
	609 217	1			
18.					
	520-600	1			
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 35			

