

Key Stage 2

Mathematics

Reasoning: Pack 2 Test 2a

Name	
Date	







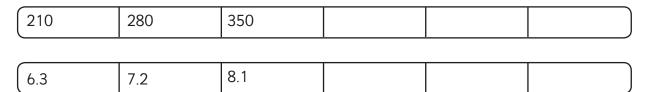






Key Stage 2 Maths Reasoning: Pack 2 Test 2a

1. Continue these sequence	ontinue inese sedueni	LE.
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2.

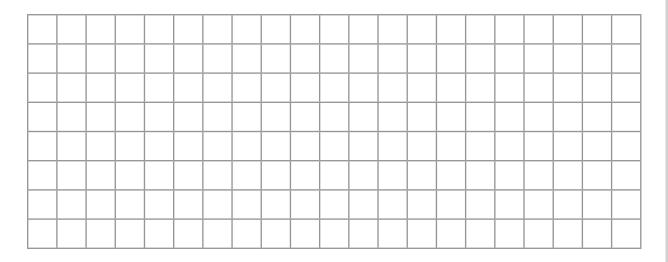
a) List all the	prime numbers	between 30	and 60
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b) Write all the prime factors of 20:



3. What can be added to 0.981 to make 1?



Answer:	
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4. a) How much liquid is there in each jug? 200ml 150ml 300ml 1**00**ml 200ml 100ml Answer: Answer: b) Calculate how much more liquid is in one jug than the other: Answer: 5. Write the number 117 906 in words: 6. What number do these Roman numerals represent? **DCCLXIX** Answer:

7. Which digit represents the number of thousands in the following number?

468 327 Answer:



8. Complete this calculation: $0.64 \times$ = 640



9. Complete these mathematical statements using the following symbols:

	< or > or =	
3 4		9 12
3 5		13 20
1 3		<u>2</u> 9

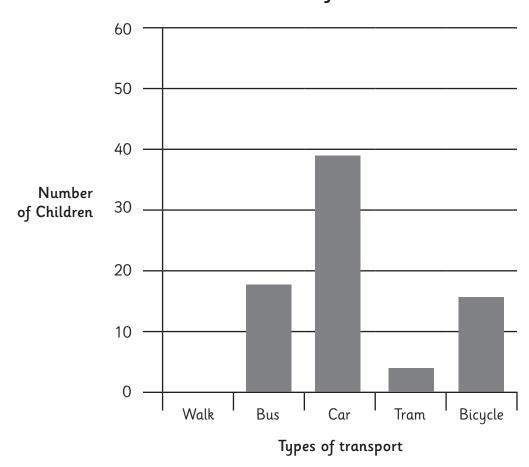




10. Some children researched the different ways a group of children travelled to school on one day. Here is a table and bar chart showing the results:

Transport	Tally	Total
Walk		57
Bus		18
Car		
Tram		4
Bicycle		16

Number of Children

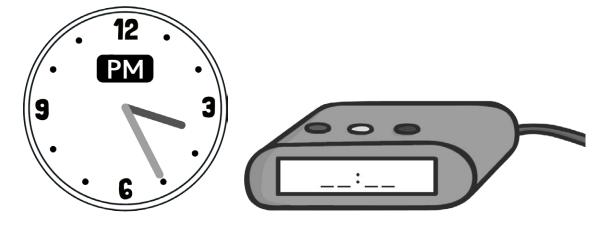


Complete the tally chart and bar graph to show the results.



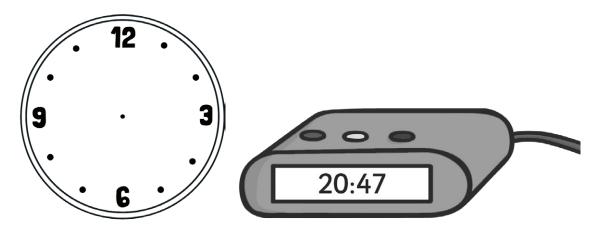


- 11. Use the clocks below to show the time.
- a) Write the time on the analogue clock onto the digital clock:





b) Draw the time on the digital clock onto the analogue clock face:

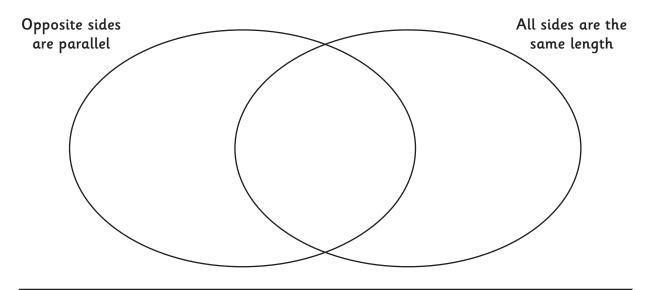




12. Here is a set of quadrilaterals:



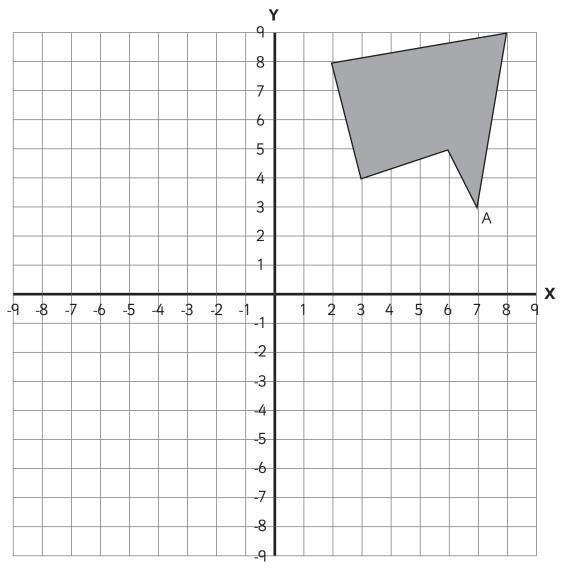
Write the name of each shape in the correct space of this Venn diagram:







13. Here is a shape drawn on a coordinate grid:



a) Reflect the shape across the Y axis and then reflect the new shape across the X axis, drawing the two new shapes.



b) Write the coordinates of point A on the new shapes:

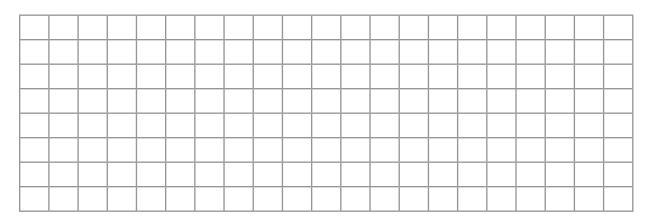
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14. Here is a timetable for a Year 6 class:

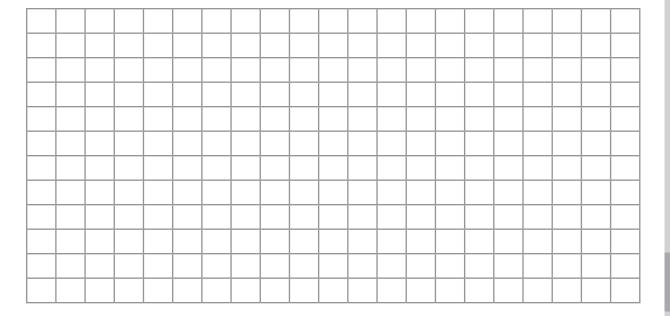
	0850 – 0910	0910 – 1010	1010 – 1030	1030 – 1045	1045 – 1115	1115 – 1230	1230 – 1315	1315 – 1400	1400 – 1445	1445 – 1515
Monday			Assembly		SGAP			То	pic	Story
Tuesday	Dogiotystian		Class assembly		Reading				Science	
Wednesday	Registration and Blue Pen work	Literacy	KS2 assembly	Break	SGAP	Maths	Lunch	Р	E	Story
Thursday			Singing		Reading			Spanish	R	E
Friday			Celebration assembly		SGAP			Music	А	rt

a) What is the total time spent on maths according to the timetable?



Hours:	Minutes:
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b) There are 38 Spanish lessons in the year. How many hours are spent learning Spanish in the year?



Answer:	
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15. Here are some digit cards.

2

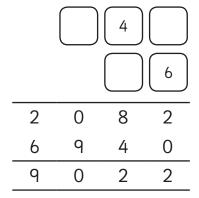
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4

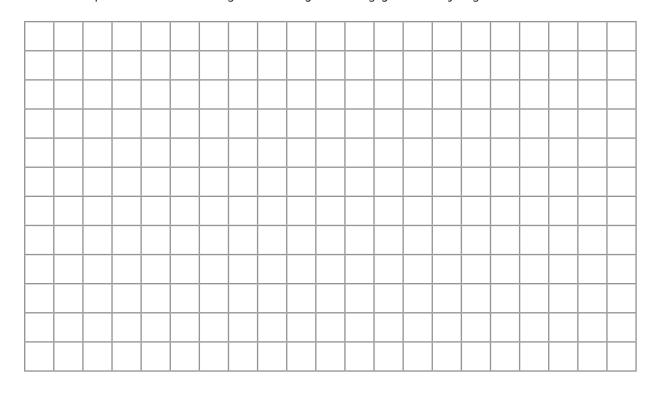
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7

Use each of these digit cards once to complete this long multiplication calculation:



Use the space below to show your working. You may get marks for your ideas:



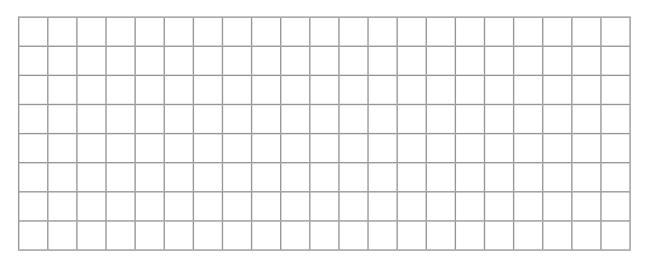




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Thores t	mas,	Janai Sara	id an	d Sa	ra re ore t	ceive han	Jano	aid. F	How	much	n did	the	y eac	ch re	ceive	?				
hor	mas,	Janai Sara	id an	d Sa	ra re ore t	ceive	Jano	aid. F	How	much	n did	the	y eac	ch re	ceive	?				
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rhoi ess t	mas,	Janai	id an	d Sa	ra re ore t	ceive	Jano	aid. F	How	much	n did	the	y eac	ch re	ceive	?				
Fhorest t	mas,	Janai	id an	d Sa	ra re ore t	ceive	Jano	aid. F	How	much	n did	the	y eac	ch re	ceive	?				
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18.

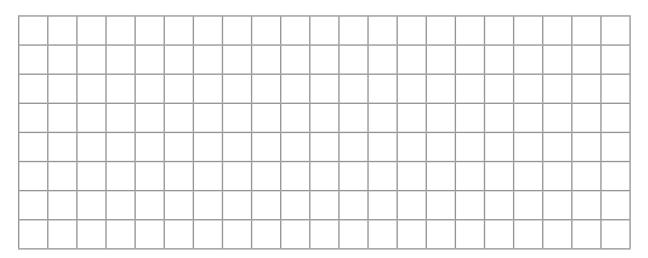
a) For the equation 6a - 2b = 24, calculate possible values for a and b:



a = b =



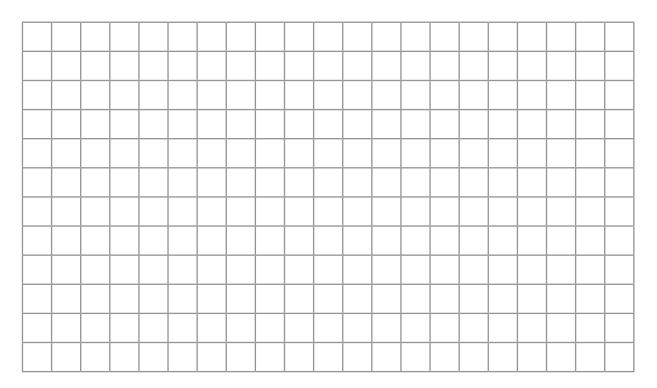
b) For the equation $\frac{(5+m)}{n}=5$, calculate possible values for m and n:



m = n =







Answer:	





Answer Sheet: Key Stage 2 Maths Reasoning: Pack 2 Test 2a



question	answer	marks	notes
1.			
	420, 490, 560	1	1 mark for all numbers correct.
	9, 9.9, 10.8	1	Allow 9.0. 1 mark for all numbers correct.
2.			
a	31, 37, 41, 43, 47, 53, 59	1	1 mark for all.
b	2 and 5	1	1 mark for both (allow 2, 2, and 5 as 2x2x5=20).
3.			
	0.019	1	
4.			
a	175ml, 125ml	1	
b	50ml	1	
5.			
	One hundred and seventeen thousand, nine hundred and six	1	
6.			
	769	1	
7.			
	8	1	
8.			
	1000	1	
9.			
	3/4 = 9/12 3/5 < 13/20 1/3 > 2/9	1	1 mark for all correct.

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question	answer	marks	notes
10.			
	Tally showing 39 H H H H H H H H H H H H H H H H H H H	2	1 mark for correct tally and total, and 1 mark for correct bar graph/chart. Allow 38 with tally for 38. Allow an answer clearly more than half way between 50 and not too close to 60 (e.g. 56 - 58)
11.			
a	15:25	1	
b	11 12 1 10 2 9 3 8 4 7 6 5	1	Ensure hands are clearly different size.
12.			
	Opposite sides are the same length Square Parallelogram Rectangle Rhombus	2	2 marks for all correct. 1 mark for 3 or 4 correct.
13.			
а	Y 9 8 7 6 5 4 3 2 1 1 2 3 4 5 6 7 8 9	2	2 marks for shape correctly reflected twice. 1 mark for 1 correct reflection, including 1 mark for correctly reflecting an incorrect first reflection.
b	(-7,3) and (-7, -3)	2	2 marks for correctly writing the coordinates of the shapes drawn in 13a (in any order). 1 mark for 1 correct answer.

Answer Sheet: Key Stage 2 Maths Reasoning: Pack 2 Test 2a



question	answer	marks	notes		
14.					
а	6 hours and 15 minutes	1			
b	28.5 hours	2	2 marks for correct answer. Allow 28 hours and 30 minutes or 28 1/2 hours 1 mark for correct calculation with only 1 error. Either (45 x 38)/60 or 38 x 0.75.		
15.					
	347 x 26	2	2 marks for the correct answer. 1 mark for evidence of some systematic working: e.g. that the units must be 2x6 or 3x4 or 6x7 to produce a 2 in the units.		
16.					
	(See end of answers for a scaled version of the isosceles triangle)	2	2 marks for drawing showing no more than 5mm error at 2 corners. 1 mark for drawing within 10mm at 2 corners.		
17.					
	Thomas £24 Janaid £19 Sara £32	2	2 marks for correct answer. 1 mark for correct method, but one error in calculation.		
18.					
a	Any correct combination e.g. a=5, b=3	1	1 mark for any correct answer.		
b	Any correct combination e.g. m=5, n=2	1	1 mark for any correct answer.		
19.					
	£75	2	2 marks for a correct answer. 1 mark for correctly calculating £58 x 1.3 = £75.40 but not rounding correctly, or incorrect calculation rounded correctly.		
		Total 35			

Question 16.

