

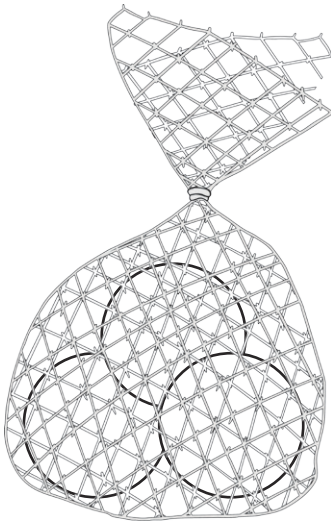
Name: Date:

31

total marks

Year 4 Reasoning Test Set 2 Paper B

1. Balls are sold in packs of three.



Complete this table to show how many balls are sold when buying any number of packs.

Number of Packs	Number of Balls
2	
5	
	30

2 marks

2. Order the following unit fractions from smallest to largest:

$$\frac{1}{5} \quad \frac{1}{2} \quad \frac{1}{4} \quad \frac{1}{6}$$

--	--	--	--

smallest

largest

1 mark

total for this page

3. Complete the following linear sequences:

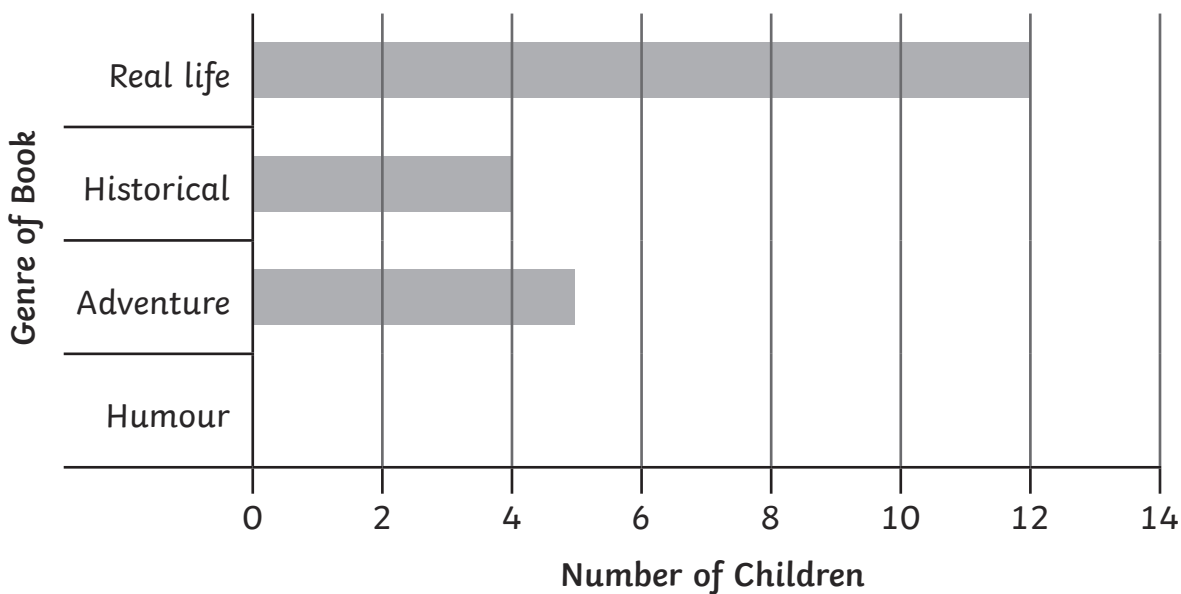
	8	12		20
--	---	----	--	----

	32		48	56
--	----	--	----	----

650	700			850
-----	-----	--	--	-----

2 marks

4. A class of children choose their favourite genre of book. They record their results in a bar chart.



- The same number of children chose Humour as chose Historical and Adventure books together. Draw the bar for Humour.
- Jodie says that more than half the children chose Real Life as their favourite genre of book. Explain why she is wrong.

1 mark

2 marks

total for this page

5. Sara has some money in her purse. She needs to give her mum £3.45.

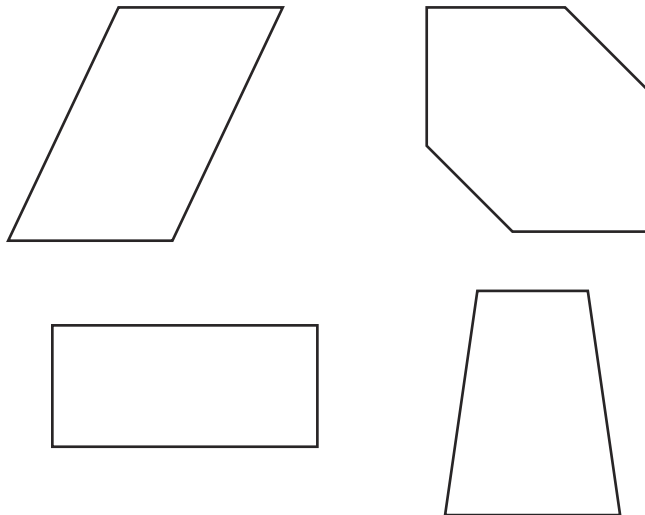
Here are Sara's coins:



With which coins could she give her £3.45.

2 marks

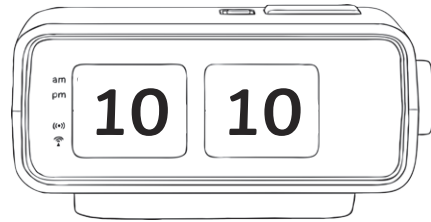
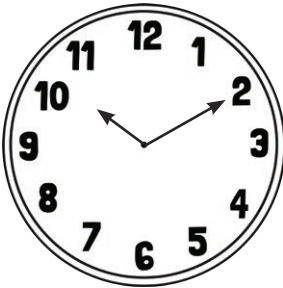
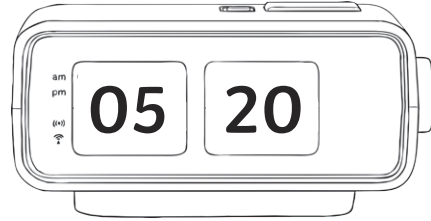
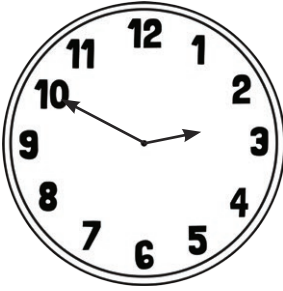
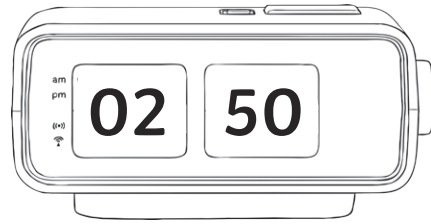
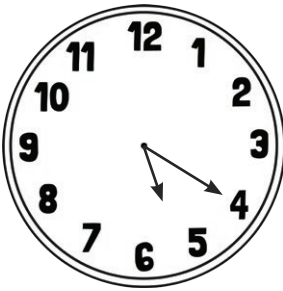
6. Put a tick in the shapes with the same number of acute angles as obtuse angles:



2 marks

total for this page

10. Match the analogue clocks to the digital clocks.



2 marks



11. a. Ring the numbers with the same digit in the hundreds place as the number 5817:

4289 3824 6418 5902 1873

1 mark

b. Write a four-digit number with the same digit in the tens place as 2307:

1 mark



12. a. Divide these numbers by 10:

$13 \div 10 =$

$69 \div 10 =$

1 mark

total for this page

b. Divide these numbers by 100:

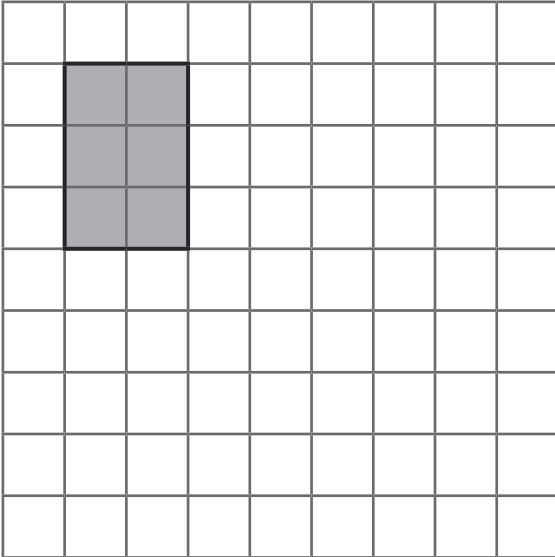
$470 \div 100 =$

$802 \div 100 =$

1 mark

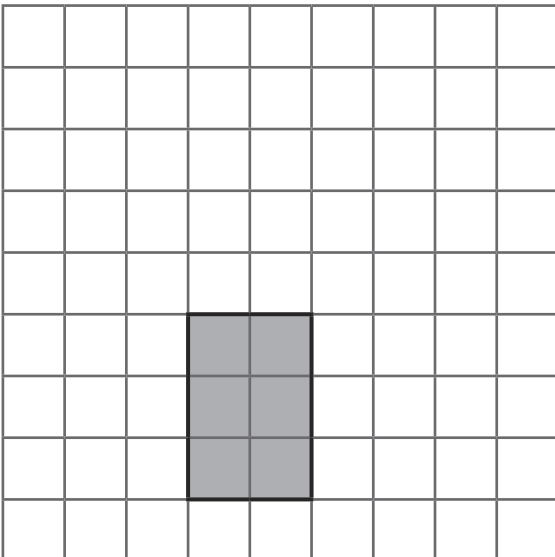
13.

a. Move the shape five squares to the right.



1 mark

b. Move the shape four squares up.



1 mark

total for this page

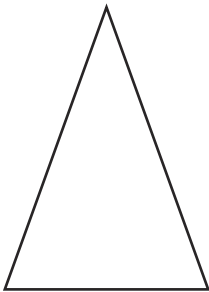
14. a. The attendance at a football match is 2600 rounded to the nearest 100. What is the maximum number of people who attended the football match?

1 mark

- b. The attendance at the same match is rounded to 2650 when rounded to the nearest ten. What are the possible numbers of people who attended the match?

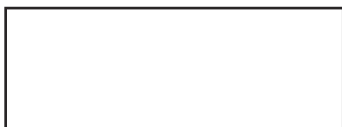
1 mark

15. a. Write the name of the following triangle:

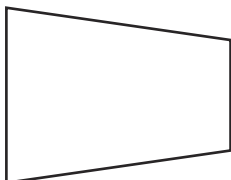


1 mark

- b. Match the following quadrilaterals to their names:



parallelogram



rectangle



trapezium

1 mark

total for
this page

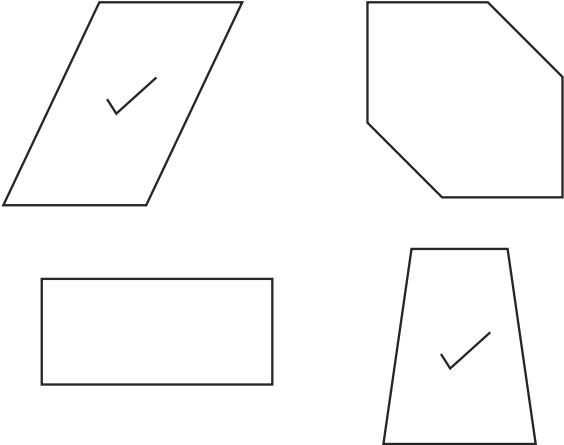
16. Measure the perimeter of this shape:

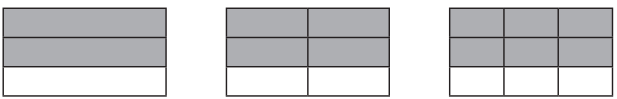
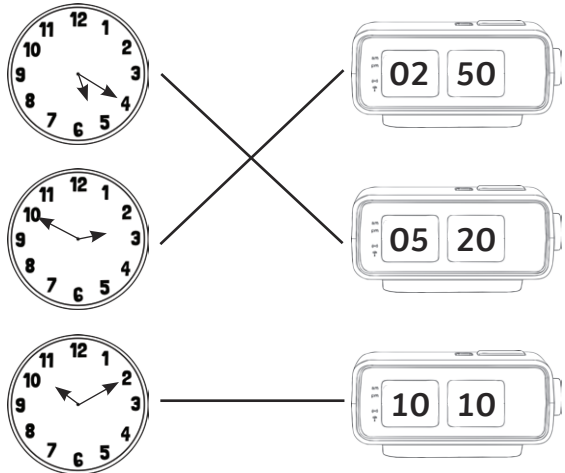


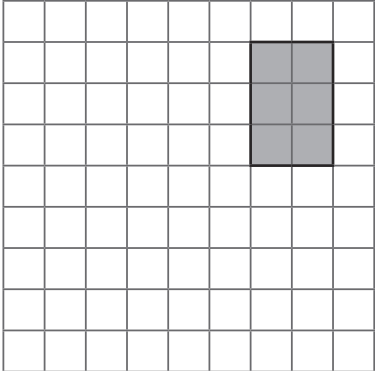
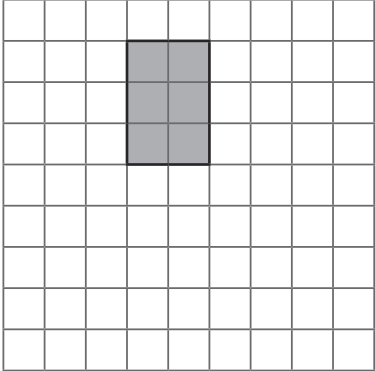
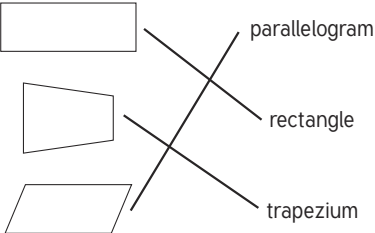
2 marks

.....
END OF TEST

total for this page

Question	Answer	Marks	Notes															
1. Balls are sold in packs of three.																		
	<table border="1"> <thead> <tr> <th>Number of Packs</th> <th>Number of Balls</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>6</td> </tr> <tr> <td>5</td> <td>15</td> </tr> <tr> <td>10</td> <td>30</td> </tr> </tbody> </table>	Number of Packs	Number of Balls	2	6	5	15	10	30	2	2 marks for all three correct 1 mark for two correct							
Number of Packs	Number of Balls																	
2	6																	
5	15																	
10	30																	
2. Order the following unit fractions from smallest to largest:																		
	$\frac{1}{6}$ $\frac{1}{5}$ $\frac{1}{4}$ $\frac{1}{2}$	1																
3. Complete the following linear sequences:																		
	<table border="1"> <tbody> <tr> <td>4</td> <td>8</td> <td>12</td> <td>16</td> <td>20</td> </tr> <tr> <td>24</td> <td>32</td> <td>40</td> <td>48</td> <td>56</td> </tr> <tr> <td>650</td> <td>700</td> <td>750</td> <td>800</td> <td>850</td> </tr> </tbody> </table>	4	8	12	16	20	24	32	40	48	56	650	700	750	800	850	2	2 marks for all three correct 1 mark for two correct
4	8	12	16	20														
24	32	40	48	56														
650	700	750	800	850														
4. A class of children choose their favourite genre of book. They record their results in a bar chart.																		
a	Length of bar = 9	1																
b	12 is less than half of the total 30 or 12 chose Real life, 18 chose the others, so 12 is less than half.	2	2 marks for a full explanation 1 mark if the children have totaled all the children as 30, or those not choosing Real life as 18, without being explicit that 12 is less than half of 30 or 12 is smaller than 18 so less than half.															
5. Sara has some money in her purse. She needs to give her mum £3.45.																		
	Any correct combination: e.g. £2, £1, 20p, 10p, 10p, 5p	2	2 marks for a correct answer 1 mark for an answer that differs by the value of one coin															
6. Put a tick in the shapes with the same number of acute angles as obtuse angles:																		
		2	2 marks for both correct and no incorrect ticked 1 mark for one or two correct and one incorrect 1 mark for one ticked and correct 0 marks if two incorrect															

Question	Answer	Marks	Notes
7. Here are three diagrams. Complete the shading on each diagram to show $\frac{2}{3}$.			
		2	2 marks for correct answer. The shading does not have to match as long as 2, 4 and 6 parts are shaded respectively. 1 mark if only one error, e.g. only 5 are shaded in the final rectangle.
8. Fill in the missing number in this calculation.			
	3	1	
9. A teacher has a pack of 250 colouring pencils. She wants to put out $\frac{3}{5}$ of the pencils on the tables in the classroom, and keep the remaining pencils in the cupboard.			
	150	2	2 marks for correct answer 1 mark for a correct calculation to find $\frac{3}{5}$ of the pencils with only one mistake.
10. Match the analogue clocks to the digital clocks.			
		2	2 marks for all correct 1 mark for two or one correct
11. Ring the numbers with the same digit in the hundreds place as the number 5817:			
a	3824 and 1873	1	1 mark for both
b	Any four-digit number with 0 in tens place	1	1 mark
12. Divide these numbers by 10:			
a	1.3 and 6.9	1	1 mark for both correct
b	4.7 and 8.02	1	1 mark for both correct

Question	Answer	Marks	Notes
13. Complete this symmetrical figure about the given line of symmetry AB:			
a		1	Allow minor error in drawing
b		1	Allow minor error in drawing
14. Complete this symmetrical figure about the given line of symmetry AB:			
a	2649	1	
b	2645 to 2654	1	
15. Complete this symmetrical figure about the given line of symmetry AB:			
a	Isosceles	1	Allow any spelling where the intention is clear.
b		1	1 mark for all correct
16. Complete this symmetrical figure about the given line of symmetry AB:			
	<p>28cm (The answer will not be 28cm if the test is not printed at 100% - default for pdf files is often 97%)</p>	2	<p>2 marks for correct answer 1 mark for evidence of correctly measuring the sides as 9cm and 5cm but not correctly calculating the perimeter as 28cm or a mistake in measuring the sides of the rectangle and using these to correctly calculate a perimeter.</p>