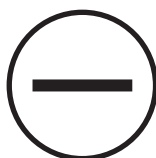


Year 4

Mathematics

Reasoning: Set 1 Test B

Name	
Date	



29
total marks

Name:

Date:

Year 4 Maths Reasoning: Set 1 Test B



1. What number is 100 less than 678?



2. Order the following fractions from smallest to largest.

$\frac{3}{8}$

$\frac{7}{8}$

$\frac{2}{8}$

$\frac{5}{8}$

--	--	--	--

smallest

largest



3. Measure the length of this line in millimetres.

 mm

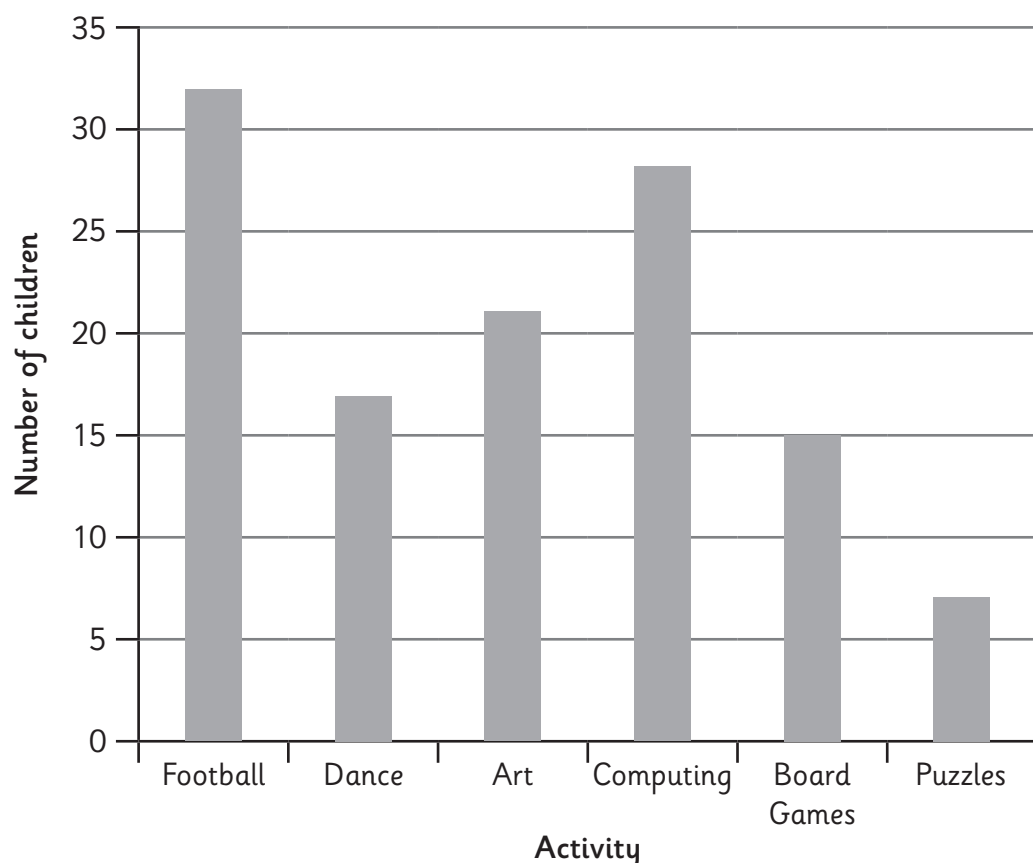
4. Write a 4 digit number with a 3 in the hundreds place and a 7 in the ones place.



5. Count back 9 from the number 4.



6. The children in a school were asked what was their favourite Golden Time activity. The results were recorded in this bar chart.



- a) How many children chose art as a favourite activity?

1 mark

- b) What is the difference between the number of children who chose the most popular and least popular activity?

1 mark

7. Here is a table showing the lengths of some films. Complete the table.

Film	Length in hours and minutes	Length in minutes
Alvin and the Chipmunks: The Road Chip	1 hour 32 minutes	
Star Wars: The Force Awakens		135 minutes

2 marks

Total for this page

8.

a) Circle the calculations that give the same answer as $4 \times 2 \times 6$:

$2 \times 4 \times 6$

4×12

$6 \times 2 \times 4$

2 x 24

1 mark

b) Two factors of 16 add up to 10. What are they?

1 mark

9. Fill in the missing numbers to complete the calculation.

$$\begin{array}{r} \square \quad 5 \quad \square \\ \times \quad \quad 4 \\ \hline 1 \quad 0 \quad 2 \quad 4 \end{array}$$

2 marks

10. Angus has 72 football cards. He decides to give $\frac{3}{8}$ of his cards to his brother.

How many cards does he give to his brother?

2 marks

11.

a) Write the decimal equivalent for $\frac{7}{10}$.

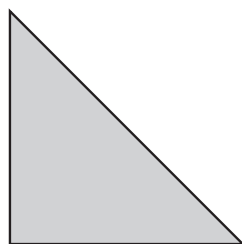
1 mark

b) Write the fraction equivalent for 0.3.

1 mark

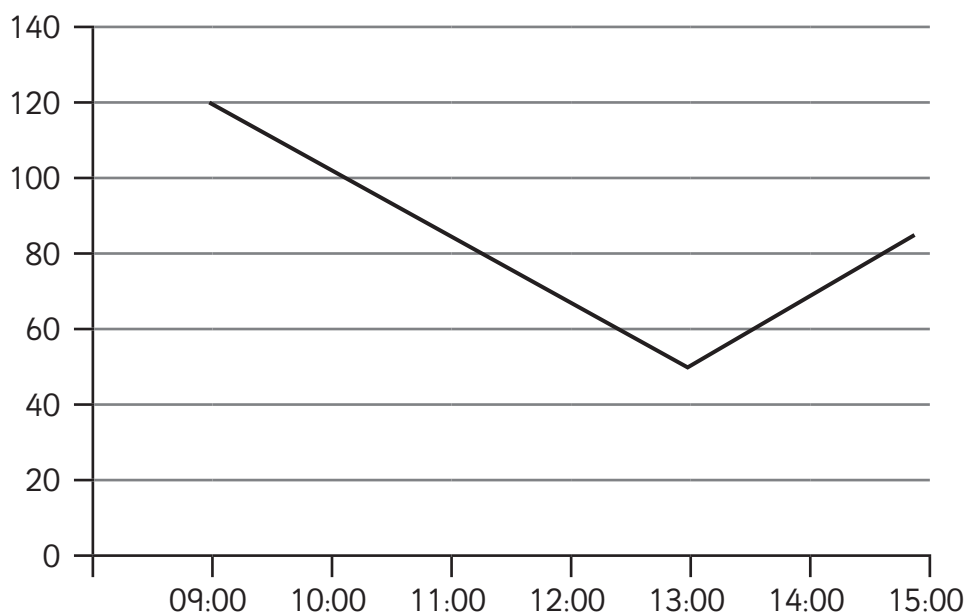
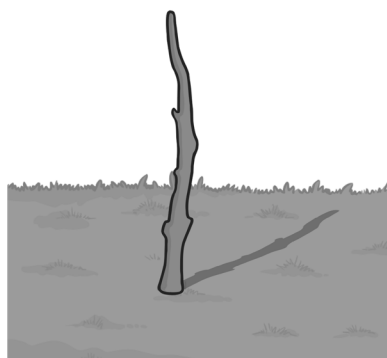
Total for
this page

12. Draw the lines of symmetry on the following shapes.



2 marks

13. Samir measured the length of a shadow cast by a post in the playground. He took a measurement on every hour. This table shows the results.



a) At what time does the graph show is the shortest shadow?

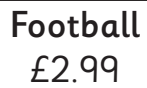
1 mark

b) What is the length of the shadow at 09:30?

1 mark

Total for this page

2 marks



2 marks

Total for this page

10 =	
100 =	
1000 =	

16. A cinema has an IMAX festival, showing films for £3 each. There are 3 showings. The number of people in each film was 245, 312 and 287.

How much money did the cinema take for the 3 films?

2 marks

17. A class of children record the number of children who have school meals or packed lunch from home. The results are displayed in the table below.

Day	Monday	Tuesday	Wednesday	Thursday	Friday
School meal	18	16	17	12	21
Packed lunch	11	12	12	17	7

a) On which day did the most children have a school meal?

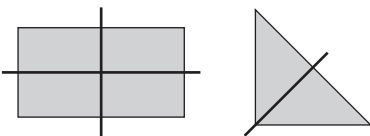
1 mark

b) Which day has the smallest difference in the number of children eating school dinner and eating a packet lunch?

1 mark

Total for this page

question	answer	marks	notes									
1. 3N2b: 100 less word question.												
	578	1										
2. 3F3: Order fractions with same denom.												
	$\frac{2}{8}$ $\frac{3}{8}$ $\frac{5}{8}$ $\frac{7}{8}$	1										
3. 3M2a: Measure length of a line in mm. (Sheet must be printed at 100% for this to be correct.)												
	75 mm	1	No mark for 7.5 cm.									
4. 4N3a: Place value to thousands.												
	Any 4 digit number with 3 in the hundreds place and 7 in ones place; e.g. 2387	1	Must have 4 digits.									
5. 4N5: Count back 9 from 4.												
	-5	1										
6. 3S2: Scaled bar chart.												
a	21	1										
b	25	1										
7. 4M4c: Film lengths convert to minutes.												
	<table><tr><td>Film</td><td>Length in hours and minutes</td><td>Length in minutes</td></tr><tr><td>Alvin and the Chipmunks: The Road Chip</td><td>1 hour 32 minutes</td><td>92 minutes</td></tr><tr><td>Star Wars: The Force Awakens</td><td>2 hours 15 minutes</td><td>135 minutes</td></tr></table>	Film	Length in hours and minutes	Length in minutes	Alvin and the Chipmunks: The Road Chip	1 hour 32 minutes	92 minutes	Star Wars: The Force Awakens	2 hours 15 minutes	135 minutes	2	1 mark for each answer.
Film	Length in hours and minutes	Length in minutes										
Alvin and the Chipmunks: The Road Chip	1 hour 32 minutes	92 minutes										
Star Wars: The Force Awakens	2 hours 15 minutes	135 minutes										
8. 4C6c: Match commutative calculations /factor pairs.												
a	All of them	1										
b	2 and 8	1										
9. 4C7: 3 digit x 1 digit missing number.												
	$\begin{array}{r} 256 \\ \times 4 \\ \hline \end{array}$	2										

question	answer	marks	notes
10. 4F10a: Word problem calc quantity.			
	27	2	2 marks for correct answer 1 mark for incorrect answer with only 1 mistake in calculating.
11. 4F6b: Write decimal /fraction equivalent.			
a	0.7	1	
b	$\frac{3}{10}$ or any other possibilities.	1	
12. 4G2b: Lines of symmetry.			
		2	
13. 4S1: Time graph.			
a	13:00 or 1pm	1	
b	110 cm	1	
14. 3M9a: Word question change.			
	£1.51	2	2 marks for correct answer 1 mark for adding £2.99 and £5.50 incorrectly but getting correct change from £10, or 1 mark for adding £2.99 and £5.50 to get £8.49 but incorrectly calculating the change.
15. 4N4b: Round to 10, 100, 1000.			
	4830, 4800, 5000	2	2 marks for all 3 correct. 1 mark for 2 correct.
16. 4C8 Word problem including multiplication and addition.			
	£2532	2	2 marks for correct answer. 1 mark for adding the number of people in the films as 844 but not correctly multiplying this by 3, or for not adding the number of people correctly, but multiplying their answer by 3 correctly.
17. 4C8: 2 step addition and multiplication word problems.			
a	Friday	1	
b	Tuesday	1	
		Total 29	