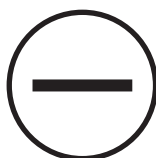


# Mathematics

## Reasoning: Set 1 Test A

Name	
Date	



23

total marks

Name:

Date:

## Maths Reasoning: Set 1 Test A



1. Continue these sequences.

a)

24	32	40	48			
----	----	----	----	--	--	--

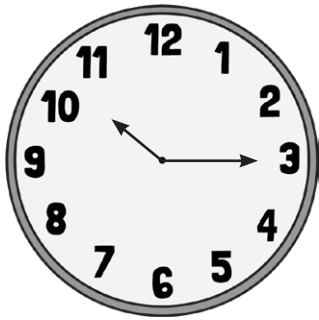


b)

350	300	250	200			
-----	-----	-----	-----	--	--	--



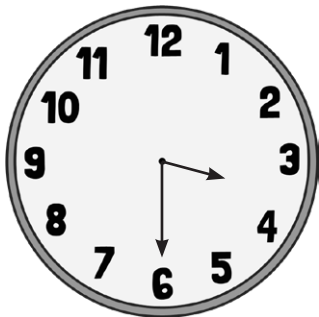
2. Match the following 24-hour times to the clocks.



15:30



22:15



18:45



3. Write a number sentence to compare these two numbers, writing the numbers in numerals and using either =, < or >.

three hundred and seventeen  
three hundred and seventy two

--	--	--



2 marks

4. Measure the length of this line in centimetres.



	cm
--	----



1 mark

5. Here are some digit cards:



Use each digit card once to complete the following:

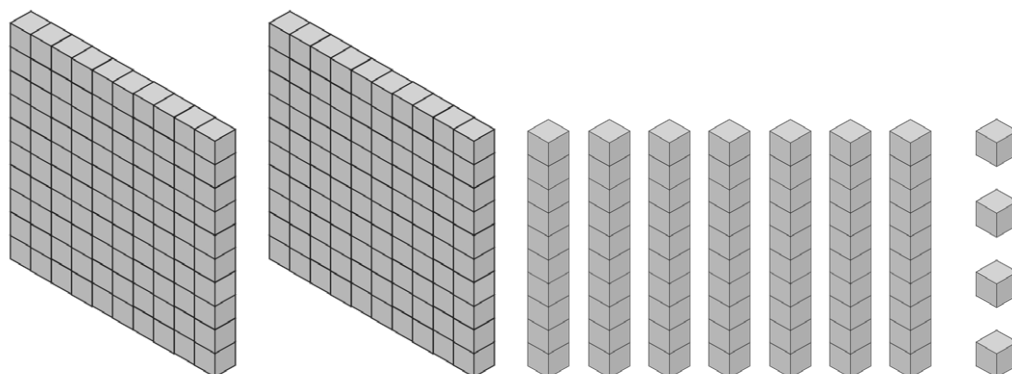
$$6 \times \square = \square \times \square$$



2 marks

6.

a) Write the number represented by these blocks, sticks and cubes.



--



1 mark



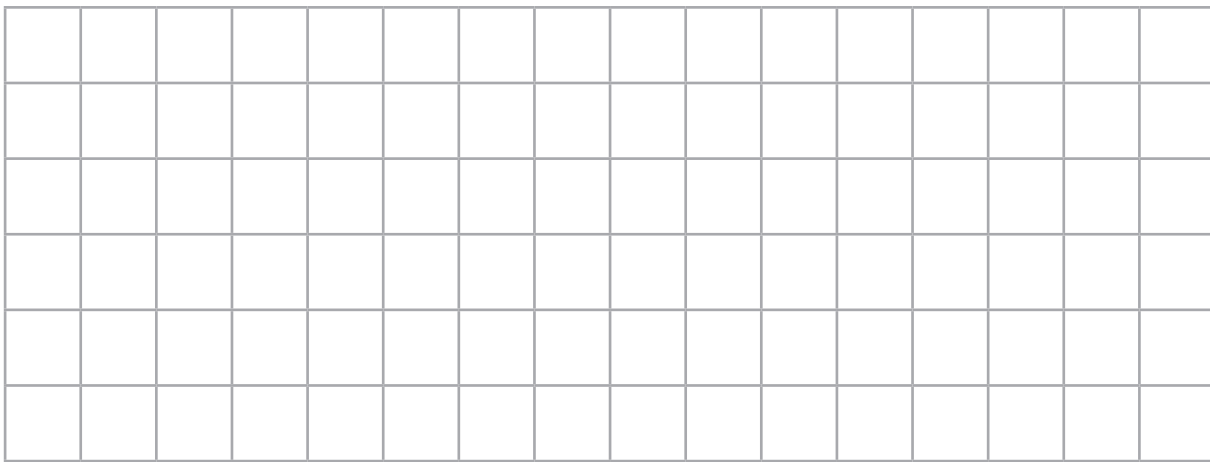
Total for this page

b) What number is represented by the arrow on this number line?




1 mark

7. Draw a rectangle and a right-angled triangle on this grid.



2 marks

8. Class One decided to find out the favourite fruit of their class. They recorded the result in this pictogram.

Banana	
Apple	
Orange	
Grapes	

Key  
 = 2 children

a) How many more children chose banana as a favourite fruit than apples?

1 mark

b) How many children took part in the survey?

1 mark

Total for this page

9. Order the following fractions from smallest to largest.

$$\frac{1}{2} \quad \frac{1}{3} \quad \frac{1}{6}$$

--	--	--

smallest

largest

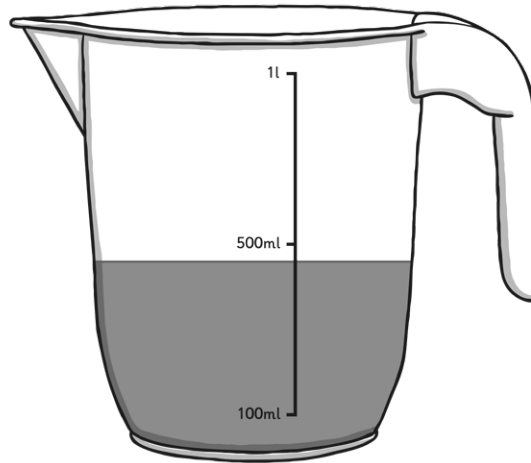
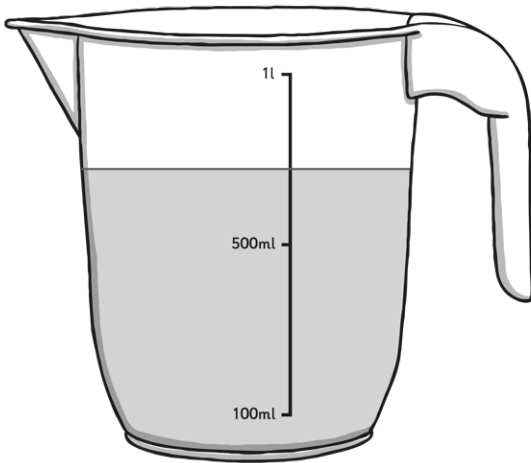
1 mark

10. A school buys some tennis sets. Each set has 2 racquets and 5 tennis balls. The school buys enough sets to have 10 racquets.

How many tennis balls will be in the sets?


2 marks

11. Here are 2 jugs of juice. How much more orange juice is there than blackcurrant juice?

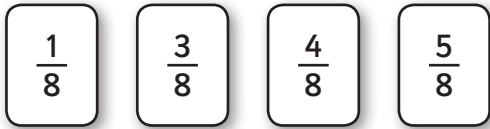


--

1 mark

Total for this page

12. Here are 4 fraction cards.



a) Choose 2 cards with a total of one whole.

$$\square + \square = 1$$

b) Choose 3 cards with a total of one whole.

$$\square + \square + \square = 1$$

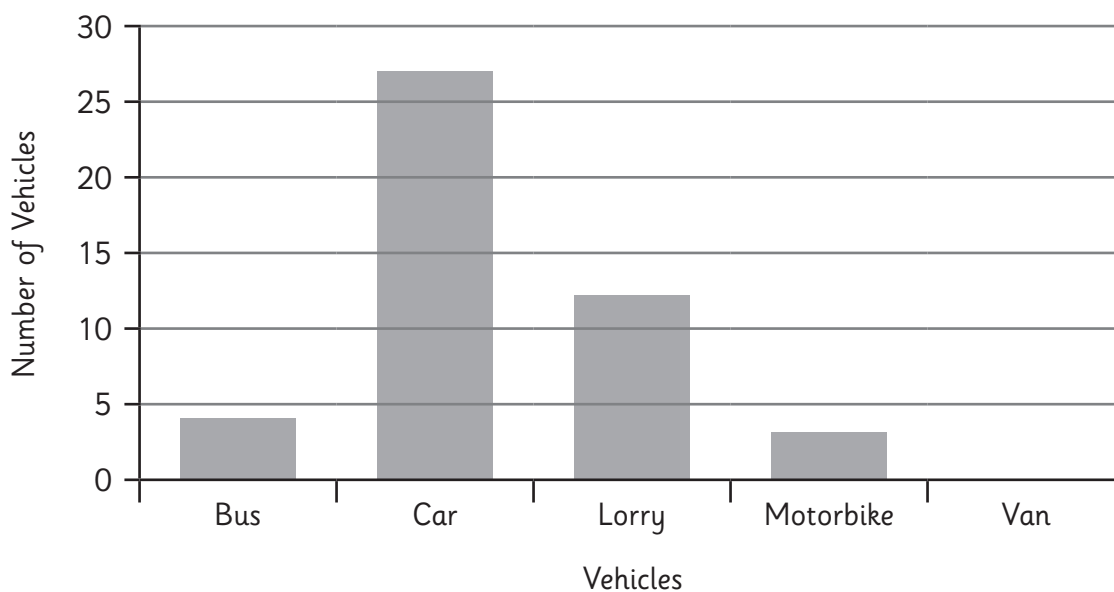
1 mark

1 mark

13. Some children record the number of different vehicles that drive past the school in one hour.

They record the results in a table and draw a bar chart. Complete the table and bar chart.

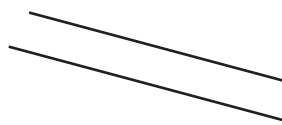
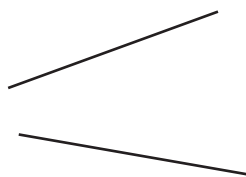
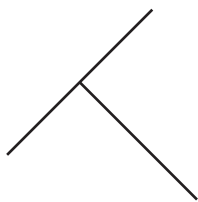
Vehicle	Number of Vehicles
Bus	4
Car	
Lorry	12
Motorbike	3
Van	14



2 marks

Total for this page

14. Here are 3 pairs of lines. Put a tick under any set that are parallel.



1 mark

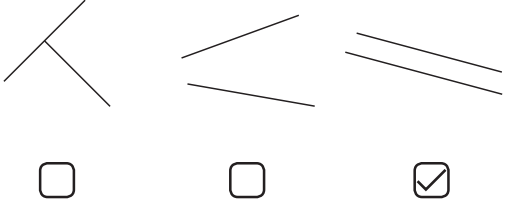


Total for  
this page

question	answer	marks	notes
<b>1. 3N1b: Count in 8 and 50.</b>			
a	56, 64, 72	1	
b	150, 100, 50	1	
<b>2. 3M4b: 24 hour time match.</b>			
		1	
<b>3. 3N2a: Compare numbers written in words.</b>			
	317 < 372 or 372 > 317	2	1 mark for correctly writing the two numbers in numerals 1 mark for correctly comparing the 2 numbers written (even if written in numerals incorrectly).
<b>4. 3M2a: Measure lengths.</b>			
	14cm	1	
<b>5. 3C6: Times tables question (3,4,8).</b>			
	$6 \times 4 = 3 \times 8$ or $6 \times 4 = 8 \times 3$	2	
<b>6. 3N4: Representations of a number.</b>			
a	274	1	Allow any answer that is a multiple of 284, where a cube is not 1.
b	620	1	Allow 617 to 623.
<b>7. 3G3a: Draw 2D shape.</b>			
	rectangle and right-angled triangle drawn	2	1 mark for each shape. Grid lines do not have to be used but the shapes must have accurate right angles.



question	answer	marks	notes												
<b>8. 3S2: Pictogram.</b>															
a	3	1													
b	32	1													
<b>9. 3G3b: Order unit fraction.</b>															
	$\frac{1}{6} \quad \frac{1}{3} \quad \frac{1}{2}$	1													
<b>10. 3F3: Integer scaling.</b>															
	25	2	2 marks for correct answer 1 mark for indicating 5 packs are purchased with incorrect answer, or incorrect number of packs multiplied by 5.												
<b>11. 3M2c: Measure volume.</b>															
	250 ml	1													
<b>12. 3F10: Fraction problem.</b>															
a	$\frac{3}{8} + \frac{5}{8}$	1													
b	$\frac{1}{8} + \frac{3}{8} + \frac{4}{8}$	1													
<b>13. 3S1: Bar chart.</b>															
	<table border="1" style="margin-bottom: 10px;"> <thead> <tr> <th>Vehicle</th> <th>Number of Vehicles</th> </tr> </thead> <tbody> <tr> <td>Bus</td> <td>4</td> </tr> <tr> <td>Car</td> <td><b>27</b></td> </tr> <tr> <td>Lorry</td> <td>12</td> </tr> <tr> <td>Motorbike</td> <td>3</td> </tr> <tr> <td>Van</td> <td>14</td> </tr> </tbody> </table>	Vehicle	Number of Vehicles	Bus	4	Car	<b>27</b>	Lorry	12	Motorbike	3	Van	14	2	1 mark for completing the table, and 1 mark for drawing the bar (allow between 13 and 15 but not including 15).
Vehicle	Number of Vehicles														
Bus	4														
Car	<b>27</b>														
Lorry	12														
Motorbike	3														
Van	14														

question	answer	marks	notes
14. 3G2: Parallel lines.			
		1	
		Total 23	