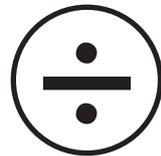
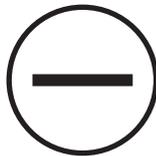


# Key Stage 1

## Mathematics

### Reasoning: Test 1

Name	
Date	



35

total marks

Name:

Date:

# Key Stage 1 Maths Reasoning: Test 1

1.

31

13

1 mark

2.

1 mark

3.



20ml

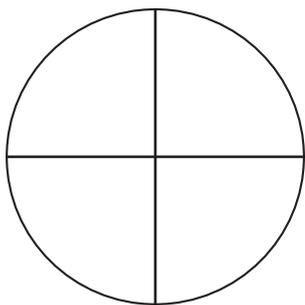
20°C

20cm

20kg

1 mark

4.

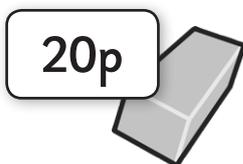


1 mark

5.



30p

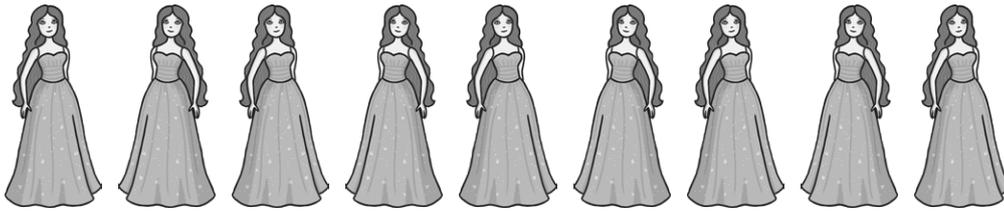


20p

1 mark

Total for this page

6. Janice has 9 small dolls. There are 15 in a full set.



How many more dolls does she need to complete her set of 15 dolls?

1 mark

7. Here are 41 balls: 24 rugby balls and 17 footballs.



Complete the addition and subtraction calculations below.

$$\square + \square = 41$$

$$\square - \square = 17$$

1 mark

Total for  
this page

8. Match the name of the 3D shape to the correct shape.

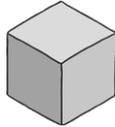
Pyramid



Cylinder



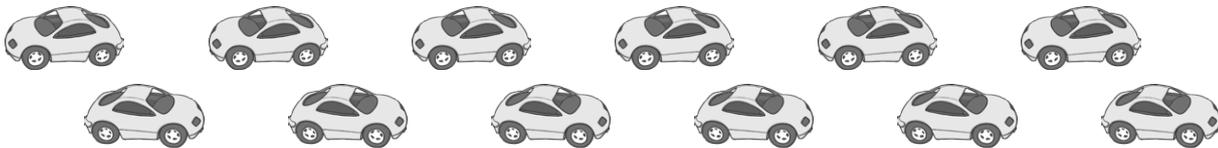
Cube



9. Circle the odd numbers.

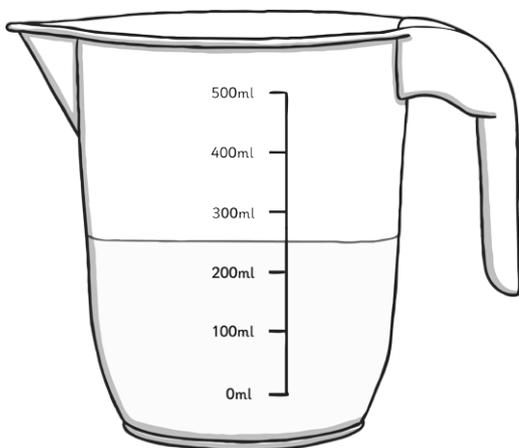
13      54      55      72  
87      26      91

10. Here are 12 toy cars. Asjal takes  $\frac{3}{4}$  of the cars to play with at his friend's house.



How many cars does Asjal take to his friend's house?

11. There is milk in this jug.



How much milk is in the jug?

 ml

1 mark

1 mark

1 mark

1 mark

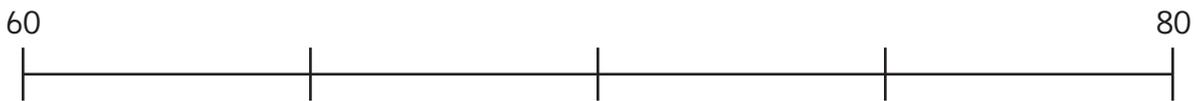
Total for this page

12. Write the missing numbers in this sequence.

67	57	47		27	
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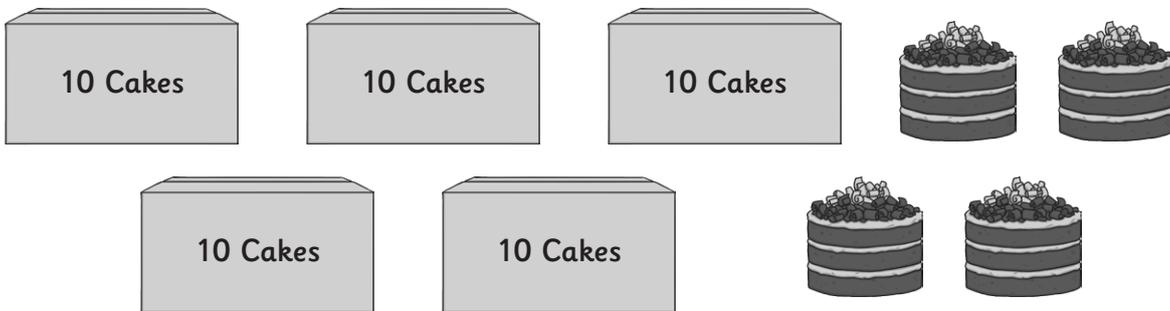
1 mark

13. Draw an arrow to show 75 on the number line.



1 mark

14. Cakes are sold in packs of ten.



How many cakes are in the picture above?

1 mark

15. Complete this calculation.

$$\square \div 4 = 15$$

1 mark

16. Circle the longer time interval.

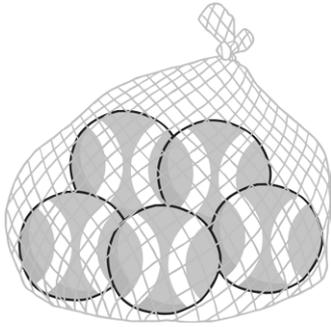
1 hour

65 minutes

1 mark

Total for this page

17. A shop sells bags of tennis balls in packs of 5.

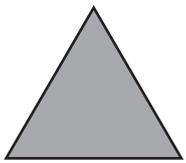


In a week the shop sells 35 balls.

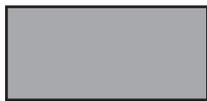
How many packs of tennis balls are sold?

1 mark

18. Here are some 2D shapes:



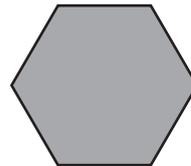
triangle



oblong



square



hexagon

Write the name of each shape in the correct column below.

Has 4 sides	Does not have four sides

1 mark

Total for this page

19. Here are 2 sets of weights.



Circle the heavier set of weights.

1 mark

20. Write a digit in each box to make this subtraction correct.

$$7\boxed{\phantom{0}} - \boxed{\phantom{0}} = 65$$

1 mark

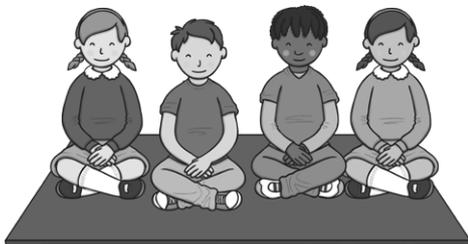
21. Janice brings 15 packets of plain crisps and 17 packets of flavoured crisps for a party. If there are 27 children in the class and each child has one pack each, how many packs will be left over?

Show your workings.



2 marks

22. A class of children sit in groups of 4. There are seven groups.



Write the calculation you would use to calculate how many children there are in the class.

1 mark

Total for this page

23. Tick the calculations that are correct.

$9 + 4 = 4 + 9$

$9 - 4 = 4 - 9$

$9 \times 4 = 4 \times 9$

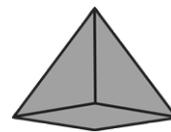
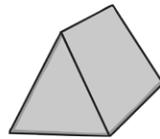
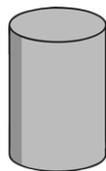
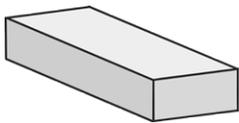
$9 \div 4 = 4 \div 9$

1 mark

24. Write a fraction that is equivalent to  $\frac{1}{2}$ .

1 mark

25. Circle the 3D shapes which have faces that are triangles.



1 mark

26. There are 24 sweets in a packet.

The sweets are shared equally among 3 children: Asjal, Janice and Tom.

Janice gives 2 of her sweets to Asjal.

How many sweets does Asjal have now?

2 marks

Total for this page

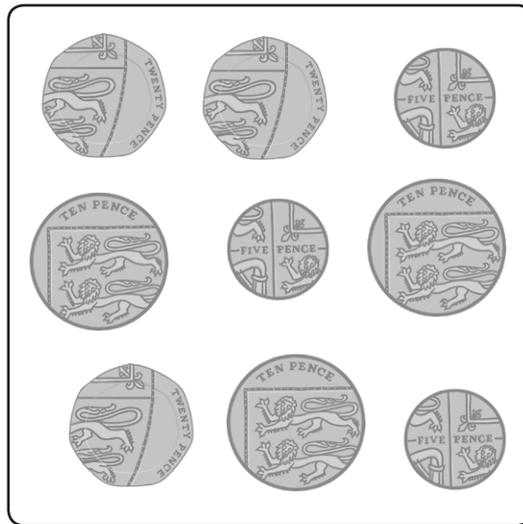
27.

a) How much money is represented by the following coins.



1 mark

b) Circle 2 sets of coins that show different ways to make this amount: 75p



1 mark

28. Here is an arrow.



Draw a new arrow to show this arrow after it has made a quarter turn clockwise.

1 mark

29. Write the number 102 in words.

1 mark

Total for this page

30. Janice buys a magazine for 38p. She pays with a 50p piece.

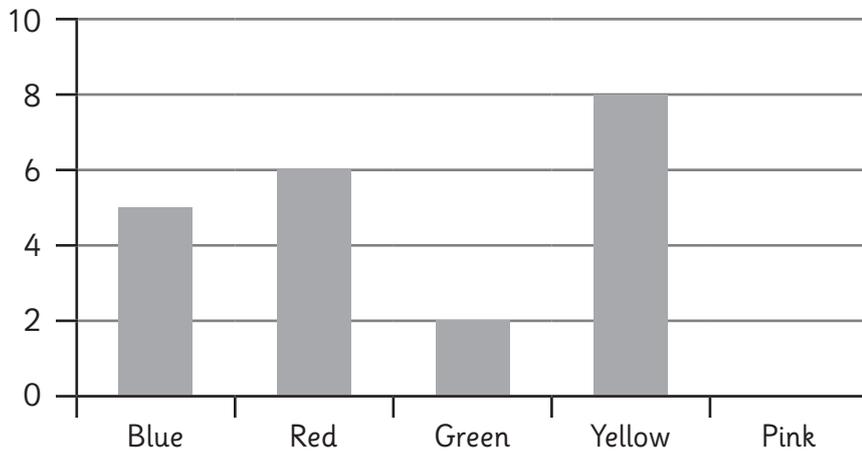
Calculate the change Janice will receive.



31. A class choose their favourite colour.

Here is a block diagram showing the choices of the children.

**Our Favourite Colours**



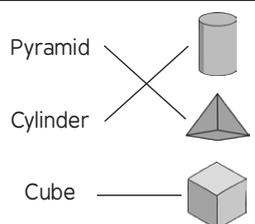
a) 7 children chose pink as their favourite colour. Draw the bar on the graph to show how many children chose pink.



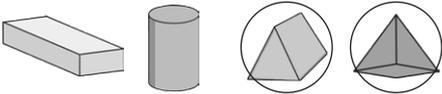
b) Janie used a tally chart to collect the information. Show the number of children who chose pink, using a tally.

Pink	
------	--



question	answer	marks	notes
<b>1.</b>			
	The 1 in 13	1	
<b>2.</b>			
	30	1	
<b>3.</b>			
	20°C	1	
<b>4.</b>			
	One quarter shaded	1	
<b>5.</b>			
	50p	1	
<b>6.</b>			
	6 dolls	1	No need to write dolls
<b>7.</b>			
	$24 + 17 = 41$ <b>or</b> $17 + 24 = 41$ $41 - 24 = 17$	1	Both answers correct for 1 mark
<b>8.</b>			
		1	
<b>9.</b>			
	<b>13, 87, 91</b> and <b>55</b> are the odd numbers	1	
<b>10.</b>			
	9 cars	1	

question	answer	marks	notes						
<b>11.</b>									
	250ml	1	Allow any answer between 230ml and 270 ml.						
<b>12.</b>									
	<table border="1" style="display: inline-table; border-collapse: collapse;"> <tr> <td style="padding: 2px 5px;">67</td> <td style="padding: 2px 5px;">57</td> <td style="padding: 2px 5px;">47</td> <td style="padding: 2px 5px; text-align: center;"><b>37</b></td> <td style="padding: 2px 5px;">27</td> <td style="padding: 2px 5px;">17</td> </tr> </table>	67	57	47	<b>37</b>	27	17	1	
67	57	47	<b>37</b>	27	17				
<b>13.</b>									
		1							
<b>14.</b>									
	54	1							
<b>15.</b>									
	60	1							
<b>16.</b>									
	65 minutes	1							
<b>17.</b>									
	7 packs	1							
<b>18.</b>									
	<b>4 sides:</b> square, rectangle <b>Not 4 sides:</b> triangle, hexagon	1							
<b>19.</b>									
		1							
<b>20.</b>									
	Any one of 70 – 5, 71 – 6, 72 – 7, 73 – 8, 74 – 9	1							

question	answer	marks	notes
<b>21.</b>			
	$15 + 17 = 32$ $32 - 27 = 5$ 5 packs	2	2 marks for correct answer. 1 mark for correct calculation with one error in calculation e.g. $15 + 17 =$ incorrect incorrect $- 27 =$ correctly calculated
<b>22.</b>			
	$7 \times 4$ or $4 \times 7$	1	No answer to the calculation needed. Mark still given if one is given incorrectly.
<b>23.</b>			
	$9 + 4 = 4 + 9$ <input checked="" type="checkbox"/> $9 - 4 = 4 - 9$ <input type="checkbox"/> $9 \times 4 = 4 \times 9$ <input checked="" type="checkbox"/> $9 \div 4 = 4 \div 9$ <input type="checkbox"/>	1	1 mark for both correct and subtraction and division not ticked
<b>24.</b>			
	$\frac{2}{4}$ or any other correct fraction	1	
<b>25.</b>			
		1	1 mark for both circled.
<b>26.</b>			
	10 sweets	2	2 marks for correct answer. 1 mark for correct calculation with one error in calculation. e.g. $24 \div 3 =$ incorrect answer incorrect answer $+ 2 =$ correctly calculated.
<b>27.</b>			
a	75p	1	
b	20p, 20p, 20p, 10p, 5p 20p, 20p, 10p, 10p, 10p, 5p 20p, 20p, 20p, 5p, 5p, 5p	1	
<b>28.</b>			
		1	Arrow can be drawn anywhere on page.

question	answer	marks	notes
<b>29.</b>			
	One hundred and two	1	
<b>30.</b>			
	12p	1	
<b>31.</b>			
a	Pink block to 7	1	
b		1	