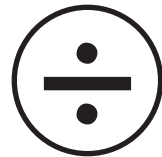
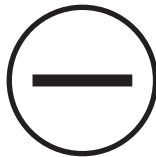


# Key Stage 1

# Mathematics

## Reasoning: Test 1

Name	
Date	



35

total marks

Name:

Date:

35  
total marks



# Key Stage 1 Maths Reasoning: Test 1

1.

31

13

1 mark

2.

1 mark

3.



20ml

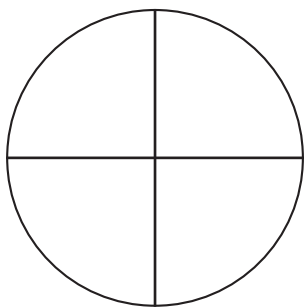
20°C

20cm

20kg

1 mark

4.

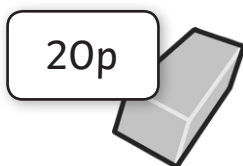


1 mark

5.



30p

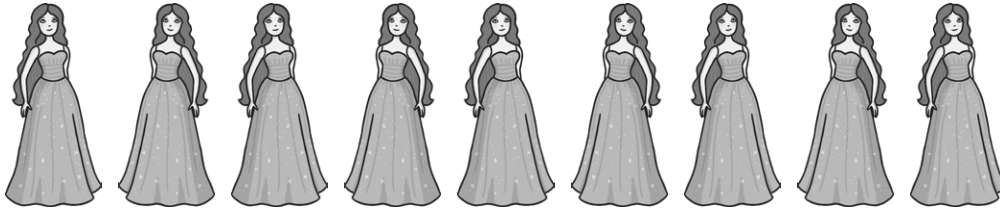


20p

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.

$$\square + \square = 41$$

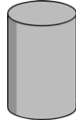
$$\square - \square = 17$$

1 mark

Total for this page

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

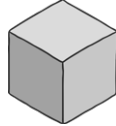
Pyramid



Cylinder



Cube



1 mark

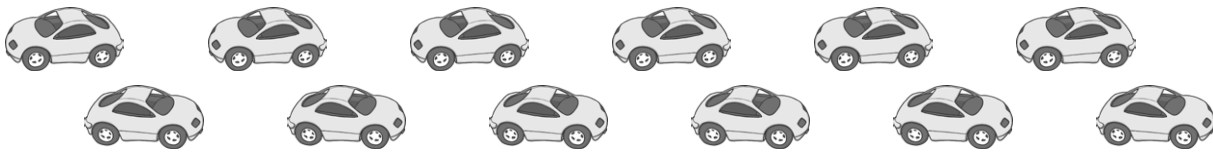
9. Circle the odd numbers.

13      54      26      55      72  
87      91



1 mark

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

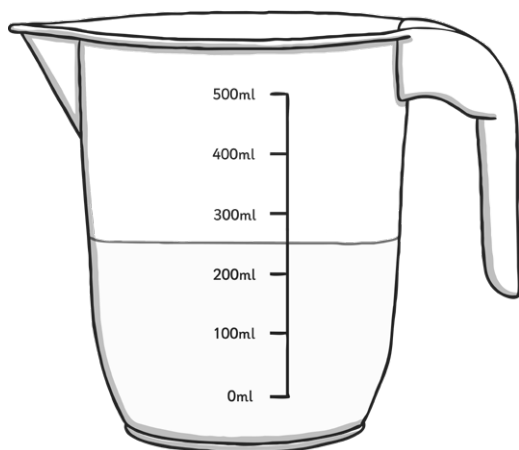


How many cars does Asjal take to his friend's house?



1 mark

11. There is milk in this jug.



How much milk is in the jug?

 ml

1 mark



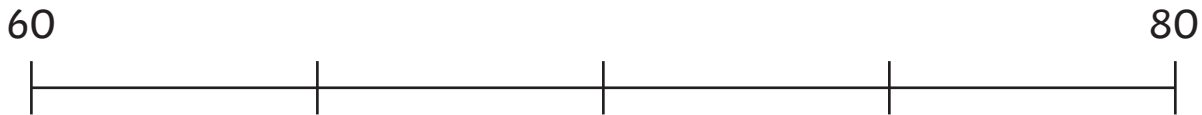
Total for this page

12. Write the missing numbers in this sequence.

67	57	47		27	
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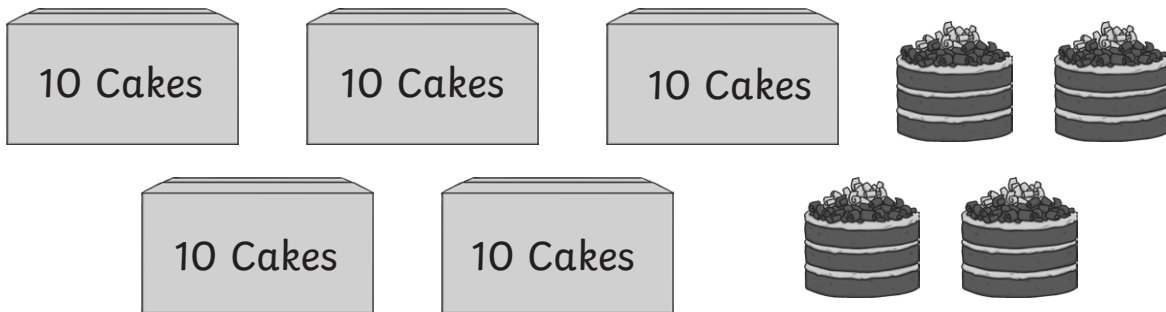
1 mark

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.

$$\square \div 4 = 5$$

1 mark

16. Circle the longer time interval.

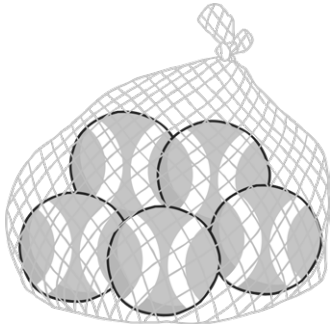
1 hour

65 minutes

1 mark

Total for this page

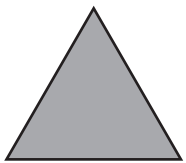
17. A shop sells bags of tennis balls in packs of 5.



In a week the shop sells 35 balls.  
How many packs of tennis balls are sold?

1 mark

18. Here are some 2D shapes:



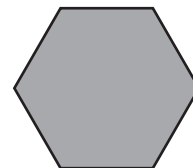
triangle



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.

$$7 \square - \square = 65$$

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.

$9 + 4 = 4 + 9$

$9 - 4 = 4 - 9$

$9 \times 4 = 4 \times 9$

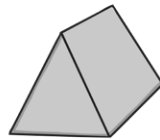
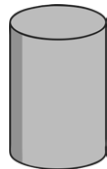
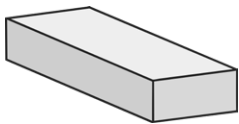
$9 \div 4 = 4 \div 9$



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



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

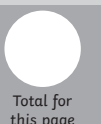


26. There are 24 sweets in a packet.

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?





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

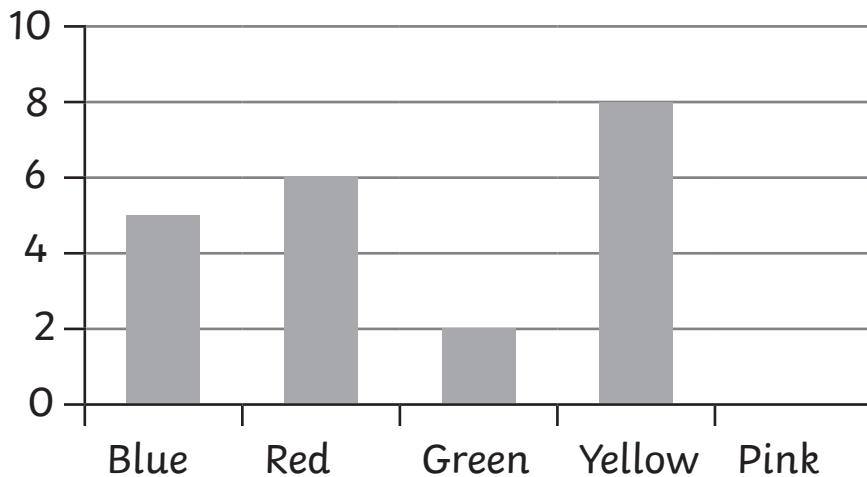
Total for this page

30. Janice buys a magazine for 38p. She pays with a 50p piece. Calculate the change Janice will receive.

1 mark

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

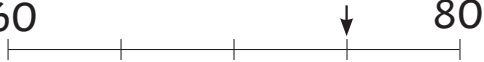
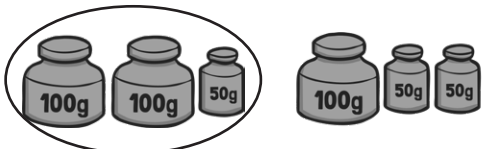
Pink	
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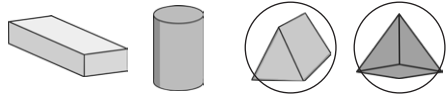
1 mark



1 mark

Total for this page

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

question	answer	marks	notes
11.			
	250ml	1	Allow any answer between 230ml and 270 ml.
12.			
	67 57 47 <b>37</b> 27 17	1	
13.			
	60  80	1	
14.			
	54	1	
15.			
	20	1	
16.			
	65 minutes	1	
17.			
	7 packs	1	
18.			
	4 sides: square, rectangle Not 4 sides: triangle, hexagon	1	
19.			
		1	
20.			
	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>			
	<input checked="" type="checkbox"/> $9 + 4 = 4 + 9$ <input type="checkbox"/> $9 - 4 = 4 - 9$ <input checked="" type="checkbox"/> $9 \times 4 = 4 \times 9$ <input type="checkbox"/> $9 \div 4 = 4 \div 9$	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.

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

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question 1	Page 1 Script for Questions 1 – 5
1	Circle the digit that represents 10s in the number thirteen.
2	What number is one more than 29?
3	Circle the measurement shown by the thermometer.
4	Shade 1 quarter of the circle.
5	A pencil costs 30p and a rubber costs 20p. Asjal buys a pencil and a rubber. How much does he spend?