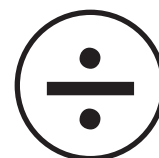
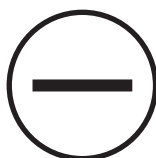


# Key Stage 1

## Mathematics

### Reasoning: Test 1

|      |  |
|------|--|
| Name |  |
| Date |  |



34

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

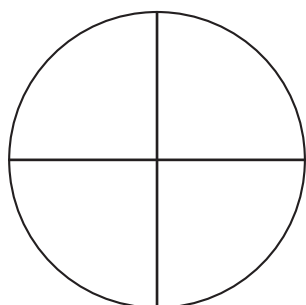
20cm

20kg



1 mark

4.



1 mark

5.



30p



20p

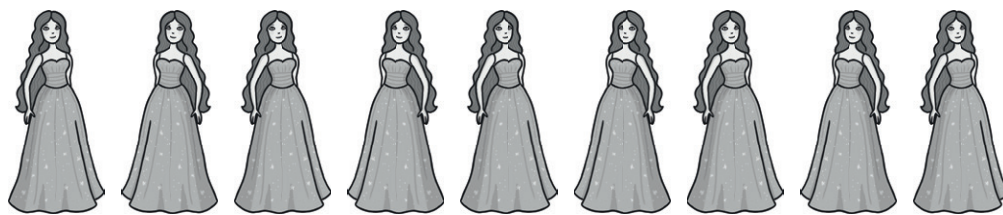


1 mark



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.

$$\square + \square = 41$$

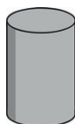
$$\square - \square = 17$$

1 mark

Total for  
this page

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

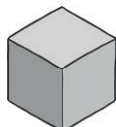
Pyramid



Cylinder



Cube



1 mark

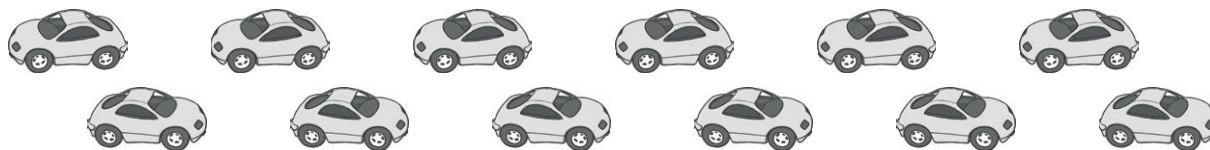
9. Circle the odd numbers.

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.

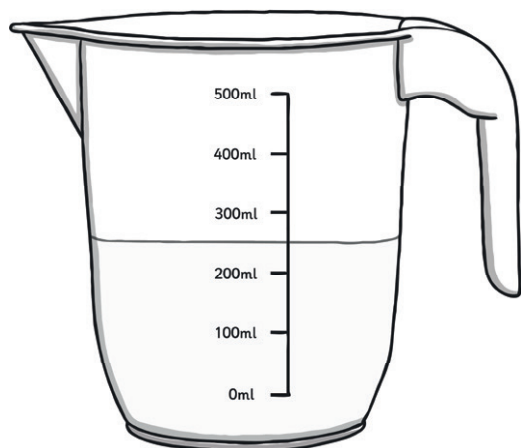


How many cars does Asjal take to his friend's house?



1 mark

11. There is milk in this jug.



How much milk is in the jug?

 ml

1 mark



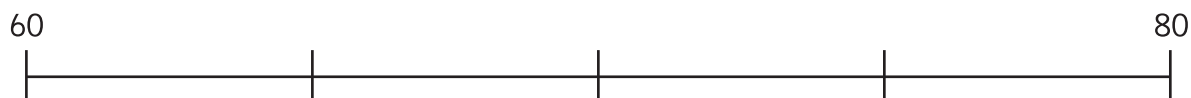
Total for this page

12. Write the missing numbers in this sequence.

|    |    |    |  |    |  |
|----|----|----|--|----|--|
| 67 | 57 | 47 |  | 27 |  |
|----|----|----|--|----|--|

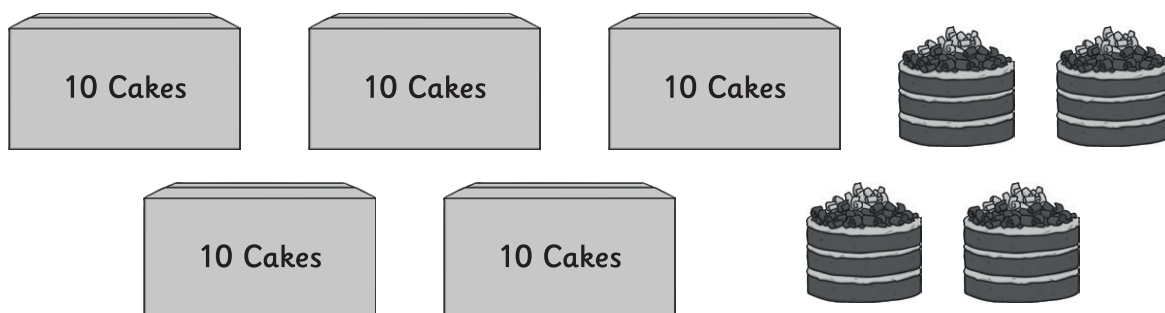
1 mark

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.

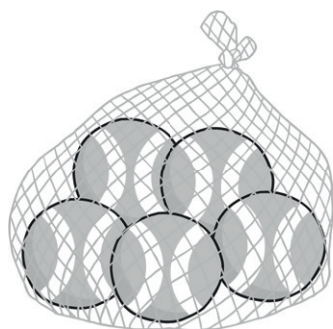
1 hour

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:



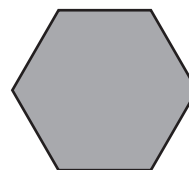
triangle



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.

$9 + 4 = 4 + 9$  ☐

$9 - 4 = 4 - 9$  ☐

$9 \times 4 = 4 \times 9$  ☐

$9 \div 4 = 4 \div 9$  ☐



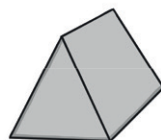
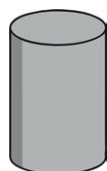
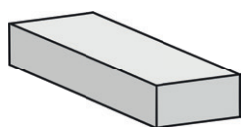
1 mark

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.

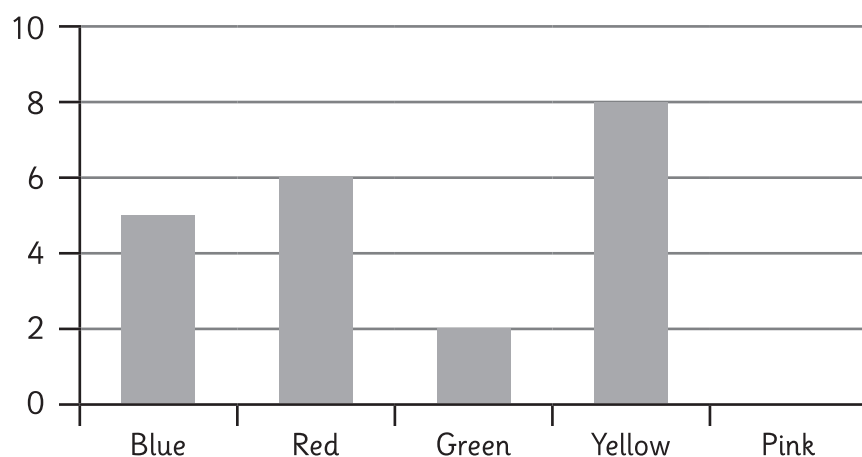
Calculate the change Janice will receive.

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.

1 mark

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

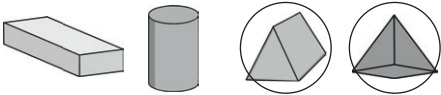
|      |  |
|------|--|
| Pink |  |
|------|--|

1 mark

Total for this page

| 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> $17 + 24 = 41$<br>$41 - 24 = 17$           | 1     | Both answers correct for 1 mark |
| <b>8.</b>  |                                                                     |       |                                 |
|            | <div> <div>Pyramid</div> <div>Cylinder</div> <div>Cube</div> </div> | 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                                      |
|----------|--------------------------------------------------------------------------------------------------|-------|--------------------------------------------|
| 11.      |                                                                                                  |       |                                            |
|          | 250ml                                                                                            | 1     | Allow any answer between 230ml and 270 ml. |
| 12.      |                                                                                                  |       |                                            |
|          | <div> <div>67</div> <div>57</div> <div>47</div> <div>37</div> <div>27</div> <div>17</div> </div> | 1     |                                            |
| 13.      |                                                                                                  |       |                                            |
|          |                                                                                                  | 1     |                                            |
| 14.      |                                                                                                  |       |                                            |
|          | 54                                                                                               | 1     |                                            |
| 15.      |                                                                                                  |       |                                            |
|          | 60                                                                                               | 1     |                                            |
| 16.      |                                                                                                  |       |                                            |
|          | 65 minutes                                                                                       | 1     |                                            |
| 17.      |                                                                                                  |       |                                            |
|          | 7 packs                                                                                          | 1     |                                            |
| 18.      |                                                                                                  |       |                                            |
|          | <b>4 sides:</b> square, rectangle<br><b>Not 4 sides:</b> triangle, hexagon                       | 1     |                                            |
| 19.      |                                                                                                  |       |                                            |
|          |                                                                                                  | 1     |                                            |
| 20.      |                                                                                                  |       |                                            |
|          | Any one of<br>70 – 5, 71 – 6, 72 – 7, 73 – 8, 74 – 9                                             | 1     |                                            |

| question   | answer                                                                                                                                                                                                             | marks | notes                                                                                                                                                                                 |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>21.</b> |                                                                                                                                                                                                                    |       |                                                                                                                                                                                       |
|            | $15 + 17 = 32$<br>$32 - 27 = 5$<br>5 packs                                                                                                                                                                         | 2     | 2 marks for correct answer.<br>1 mark for correct calculation with one error in calculation<br>e.g. $15 + 17 =$ incorrect<br>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"/><br>$9 - 4 = 4 - 9$ <input type="checkbox"/><br>$9 \times 4 = 4 \times 9$ <input checked="" type="checkbox"/><br>$9 \div 4 = 4 \div 9$ <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.<br>1 mark for correct calculation with one error in calculation.<br>e.g. $24 \div 3 =$ incorrect answer<br>incorrect answer $+ 2 =$ correctly calculated. |
| <b>27.</b> |                                                                                                                                                                                                                    |       |                                                                                                                                                                                       |
| a          | 75p                                                                                                                                                                                                                | 1     |                                                                                                                                                                                       |
| b          | 20p, 20p, 20p, 10p, 5p<br>20p, 20p, 10p, 10p, 10p, 5p<br>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     |       |