

National Curriculum Tests

Key Stage 1

Mathematics

Paper 2: Reasoning

First Name						
Middle Name						
Last Name						
Date of Birth	Day		Month		Year	
School Name						

Published October 2017



Instructions

You **may not** use a calculator to answer any questions in this test.

Questions and answers

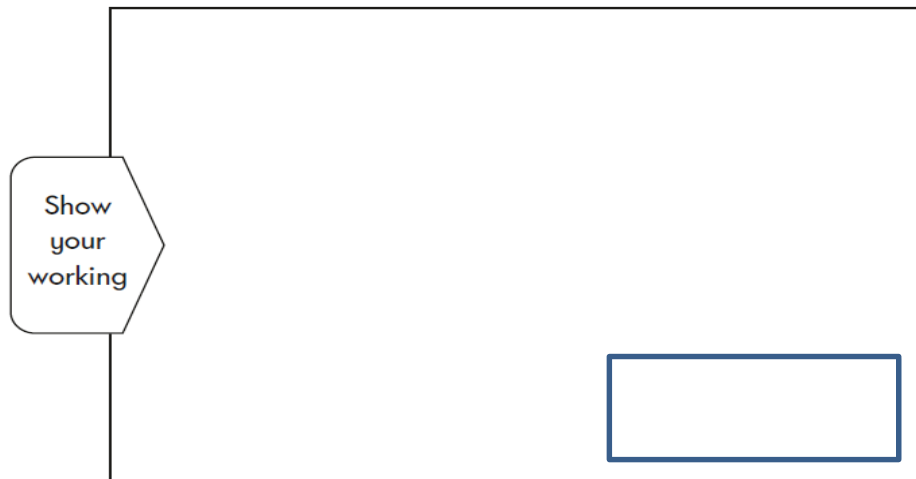
You have **40 minutes** to complete the test.

Follow the instructions for each question.

Work as quickly and as carefully as you can.

If you need to do working out, you can use the space around the question.

Some questions have a method box like this:



For these questions you may get a mark for showing your method.

If you cannot do one of the questions, **go on to the next one**.
You can come back to it later, if you have time.

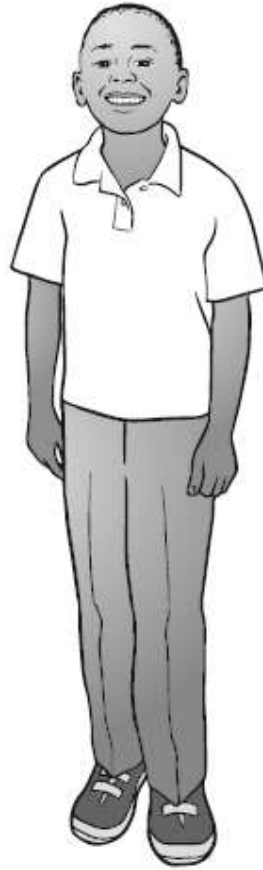
If you finish before the end, **go back and check your work**.

Marks

The number under each line at the side of the pages tells you the maximum number of marks for each question.



Laura



Manjit

Ann Kelly

Bob Jack

Practice Question

Laura



Manjit



footballs

1.

Ann

Bob

Kelly



1 mark

2.

111

1001

110

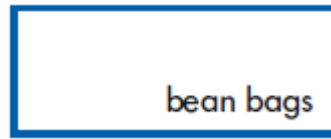
101

200

1 mark

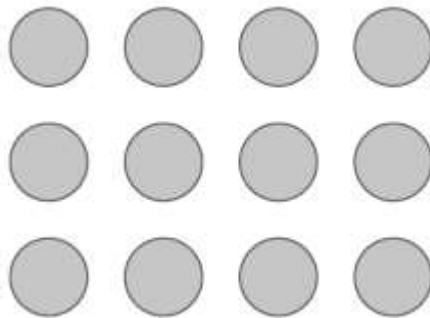
3.

73



1 mark

4.



$4 + 3$

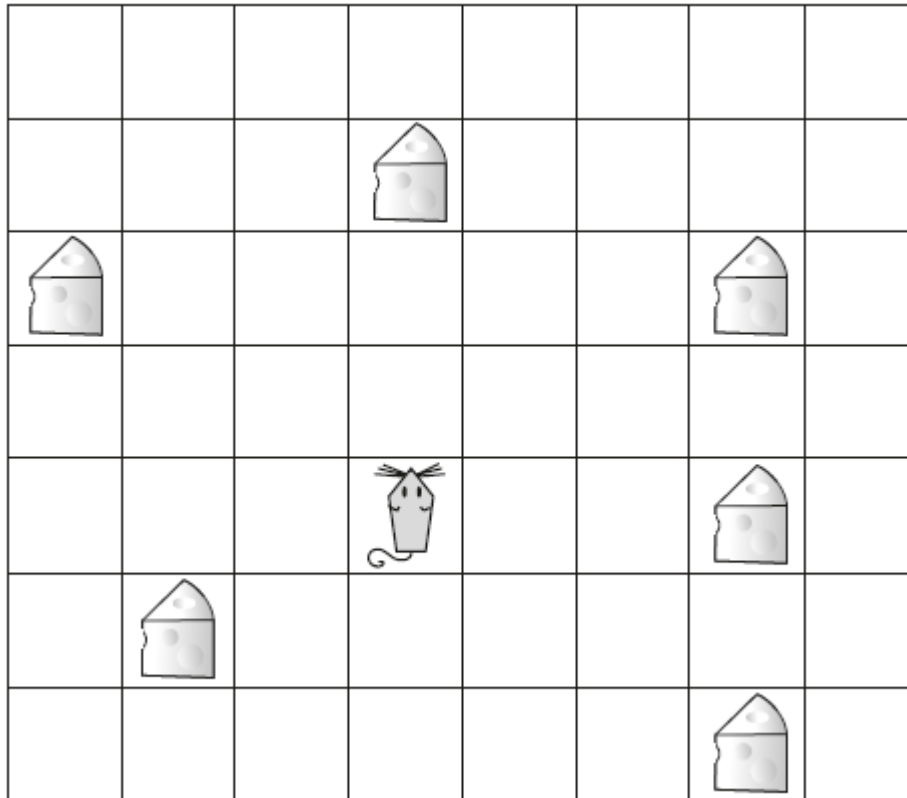
$4 - 3$

$4 + 4$

4×3

1 mark

5.



1 mark

6. Write these numbers in order, starting with the smallest.

43 34 46 35 53

smallest **largest**

1 mark

7. Circle the shortest time.

65 minutes 15 minutes 40 minutes 1 hour

1 mark

8. A board game costs £23.

Kelly has £18.



How much more money does Kelly need to buy the game?

£

1 mark

9. Circle the two numbers that are odd.

57

36

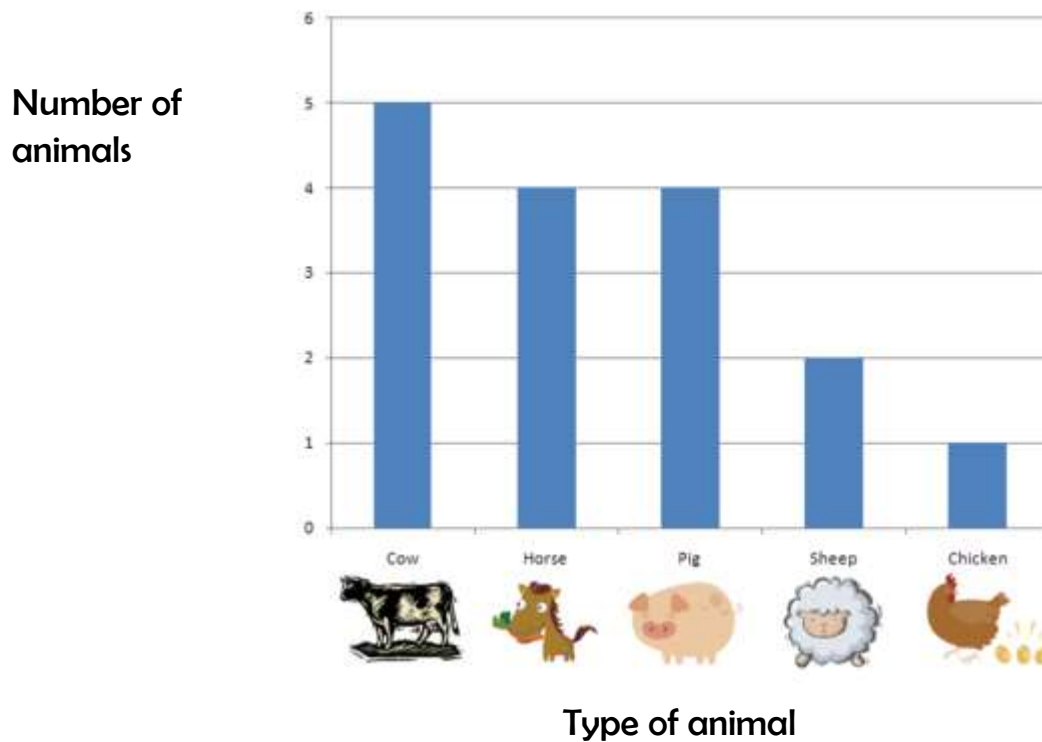
28

43

1 mark

10. A farmer has 16 animals on the farm.

The chart shows which animal these are.



a) How many more pigs are there than sheep?

1 mark

b) Another animal joins the farm. It is a chicken.

Add this information to the chart.

1 mark

11.



What time does the clock show?

Tick the correct box.

Twenty past 6

Half past 3

Quarter past 6

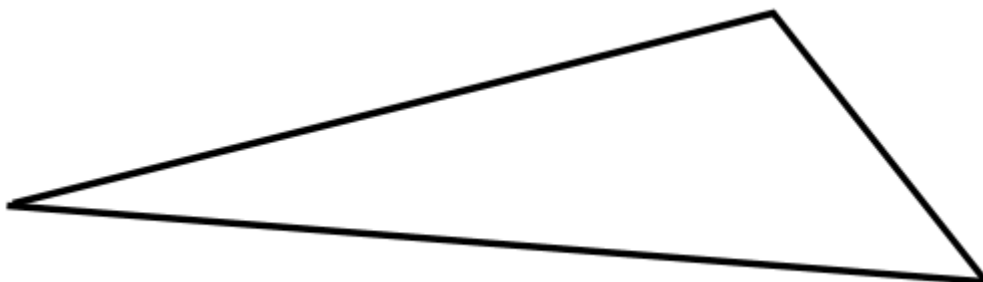
Half past 4

1 mark

12.

Measure the longest line.

Use a ruler.



1 mark

13. Look at these numbers.

0

23

40

52

Write each number once to make these correct.

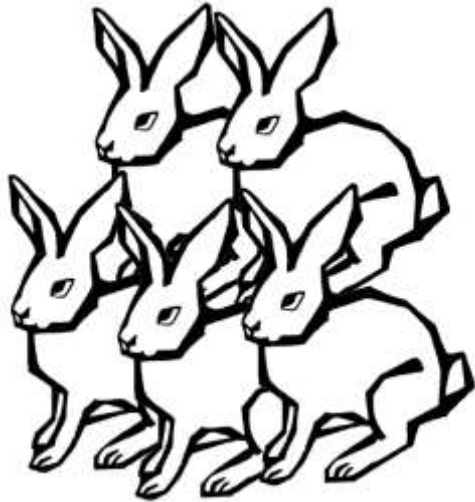
$$\square > \square$$

$$\square > \square$$

1 mark

14. 20 carrots are shared equally between 5 rabbits.

How many carrots does each rabbit get?

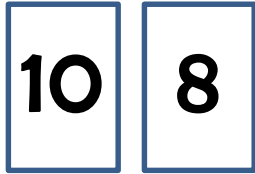


carrots

1 mark

15. Fill in the missing numbers to make a pair of cards total 18.

One pair is done for you.



 1 mark

16. Look at these coins.



What is the largest amount you can make using four of these different coins?

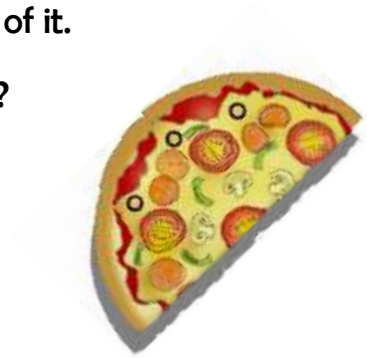


 1 mark

17. Laura could not eat all of her pizza. She left half of it.

Which fraction shows the amount she did not eat?

Circle it.



$$\frac{1}{4}$$

$$\frac{1}{3}$$

$$\frac{2}{4}$$

$$\frac{3}{4}$$

1mark

18. Write six different numbers to make these sums correct.

$$\square + \square = 26$$

$$\square + \square = 26$$

$$\square + \square = 26$$

2 marks

19. Kelly and Laura count cars.

Kelly counts 27 green cars.

Laura counts 34 silver cars.

How many cars do they count altogether?



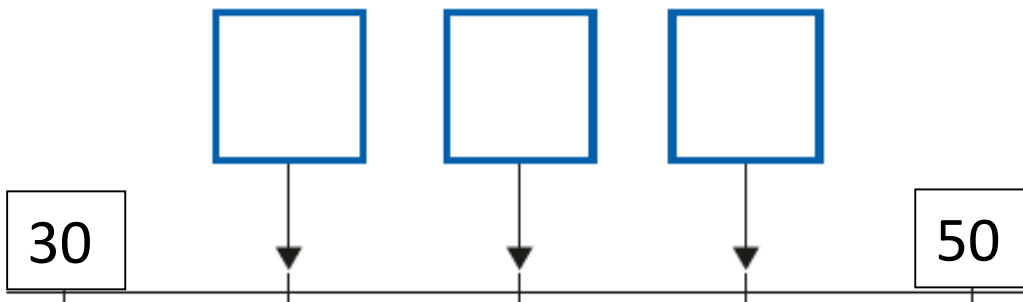
Show
your
working

cars

1 mark

20. The numbers on this number line go up by the same amount each time.

Write the missing numbers in the boxes.



1 mark

21. Ann, Bob, Jack and Manjit have 3 marbles each.

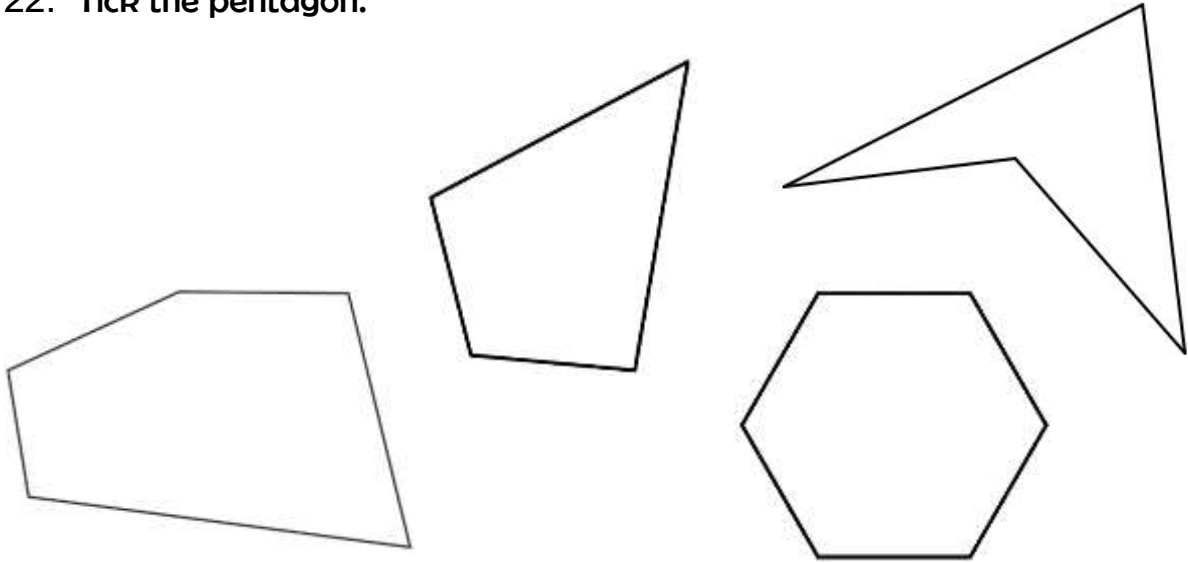
How many marbles do they have altogether?



marbles

1 mark

22. Tick the pentagon.



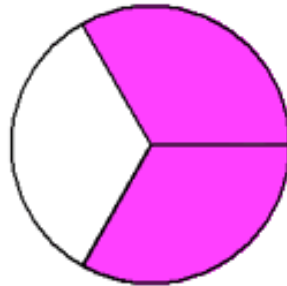
1 mark

23. Write the missing number to make this number sentence correct.

$$7 + 9 - \square = 13$$

1 mark

24. Tick the shape that has exactly $\frac{1}{3}$ shaded.



1 mark

25. Complete these sums.

One is done for you.

$$\boxed{4} + \boxed{6} = \boxed{10}$$

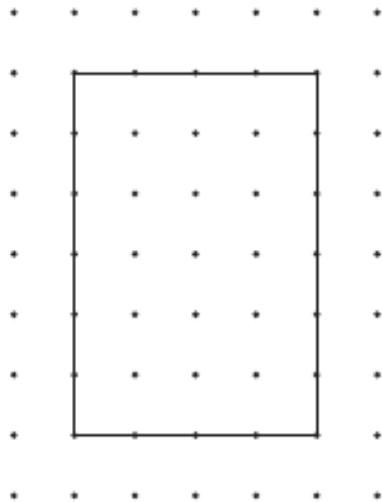
$$\boxed{34} + \boxed{} = \boxed{40}$$

$$\boxed{} + \boxed{6} = \boxed{80}$$

1 mark

26. Draw lines to divide the rectangle into quarters.

Use the dots to help you.



 1 mark

27. Bob has 5 boxes of eggs.



Write a number sentence using **X** and **=** to show that Bob has **30** eggs altogether.

 1 mark

28.

There are **54** cakes.

19 boys and **20** girls each take a cake.

How many cakes are left?



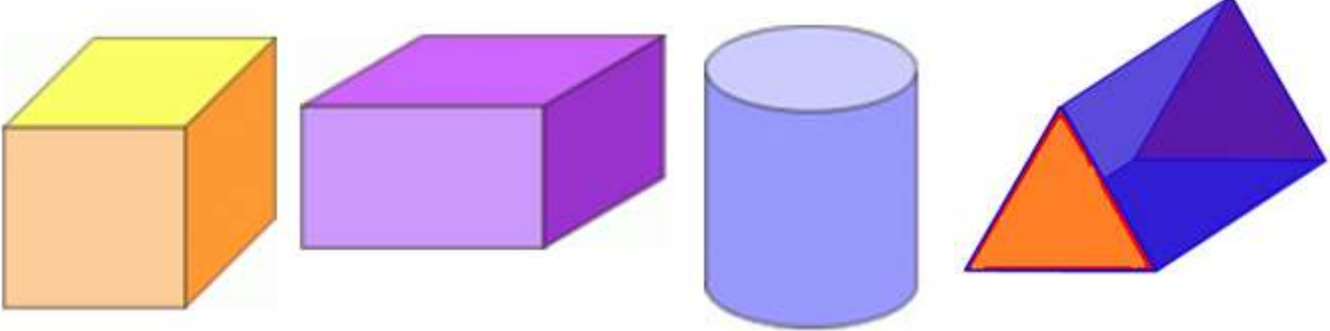
Show
your
working

cakes

2 marks

29. Two shapes have more than 6 vertices.

Tick them.



1 mark

30. There are **74** cars in a car park.

16 more cars go into the car park.

Then **33** cars go out.

How many cars are in the car park now?



Show
your
working

cars

2 marks

31. The apple weighs 23 grams.

The apple and the banana together weigh 67 grams.



What does the banana weigh?

g

1 mark

END OF TEST