

1

Millie and Ryan play a number game.

**What's my number?**



- Is it under 20?                      Yes
- Is it a multiple of 3?              Yes
- Is it a multiple of 5?              Yes

What is the number?

*Handwritten mark* →

1 mark

They play the game again.



- Is it under 20?                      No
- Is it under 25?                      Yes
- Is it odd?                              Yes
- Is it a prime number?              Yes

What is the number?

*Handwritten mark* →

1 mark

2

$5^2 =$

1 mark

3

A number **multiplied by itself** gives the answer **49**.

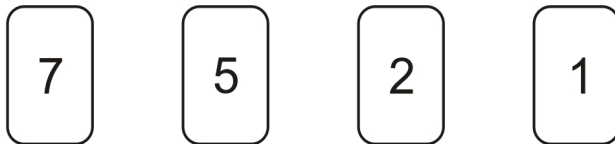
Circle the number.

*Handwritten mark* 2 3 4 5 6 7 8 9

1 mark

4

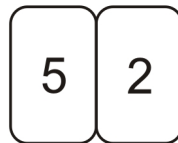
Here are four digit cards.



Choose two cards each time to make the following two-digit numbers.

The first one is done for you.

*Handwritten mark* an even number



a multiple of 9



a square number



a factor of 96



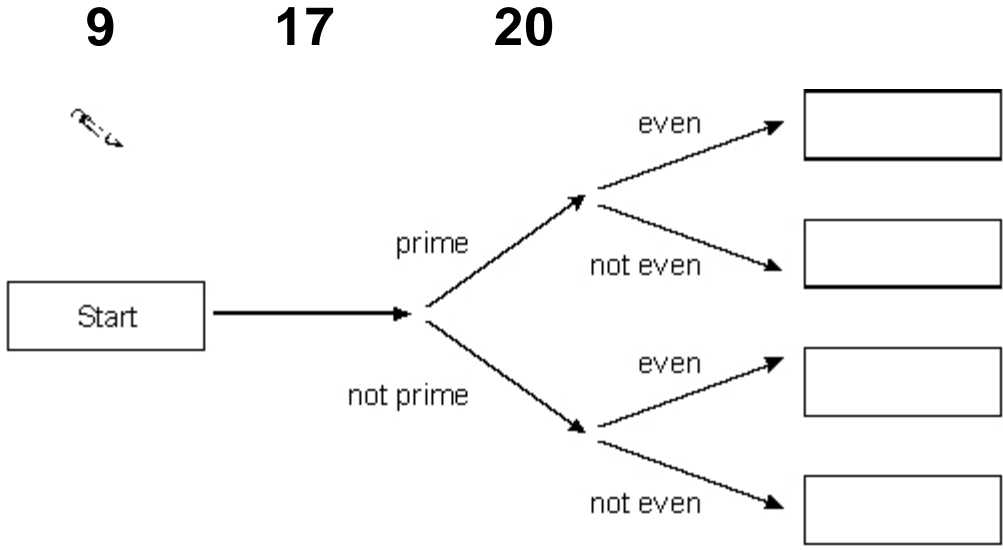
2 marks

5

Here is a diagram for sorting numbers.

Write these three numbers in the correct boxes.

You may not need to use all of the boxes.



2 marks

6

$3^3 =$

1 mark

7

Here is a sorting diagram for numbers.

Write a number **less than 100** in each space.

	even	not even
a square number		
not a square number		

2 marks

8

$11^2 =$

1 mark

9

$4^3 =$

1 mark

10

Circle the **two** prime numbers.



29

39

49

59

69

1 mark

## Mark schemes

**1** (a) 15

1

(b) 23

1

[2]

**2** 25

[1]

**3** 2 3 4 5 6 **7** 8 9

[1]

**4** Award **TWO** marks for all three numbers correct as shown:

• a multiple of 9 

2	7
---	---

 OR 

7	2
---	---

• a square number 

2	5
---	---

• a factor of 96 

1	2
---	---

If the answer is incorrect, award **ONE** mark for two numbers correct.

Up to 2

[2]

**5** Award **TWO** marks for numbers placed in boxes as shown below:

17
20
9

If the answer is incorrect, award **ONE** mark for two numbers correctly placed.

**Do not** accept a number repeated in different boxes.

*Ignore any numbers on the diagram other than those given.*

Up to 2

[2]

**6** 27

[1]

**7** Award **TWO** marks for a correct number written in each of the four boxes.

	even	not even
a square number	0 <b>OR</b> 4 <b>OR</b> 16 <b>OR</b> 36 <b>OR</b> 64	1 <b>OR</b> 9 <b>OR</b> 25 <b>OR</b> 49 <b>OR</b> 81
not a square number	even <b>AND</b> not a square <b>AND</b> less than 100	odd <b>AND</b> not square <b>AND</b> less than 100

If the answer is incorrect, award **ONE** mark for three boxes completed correctly.

*Accept more than one number in each box, provided all are correct.*

Up to 2

[2]

**8** 121

[1]

**9** 64

[1]

**10** Two numbers circled as shown:

29 39 49 59 69

**Do not** award the mark if additional incorrect numbers are circled.  
*Accept alternative unambiguous indications, eg numbers ticked, crossed or underlined.*

[1]