

1.

Millie and Ryan play a number game.

What's my number?



Is it under 20? Yes

Is it a multiple of 3? Yes

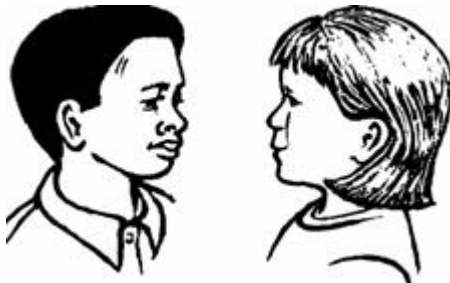
Is it a multiple of 5? Yes

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.

 2 3 4 5 6 7 8 9

1 mark

4.

Here are four digit cards.

7	5	2	1
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Choose two cards each time to make the following two-digit numbers.

The first one is done for you.

 an even number

5	2
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a multiple of 9

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a square number

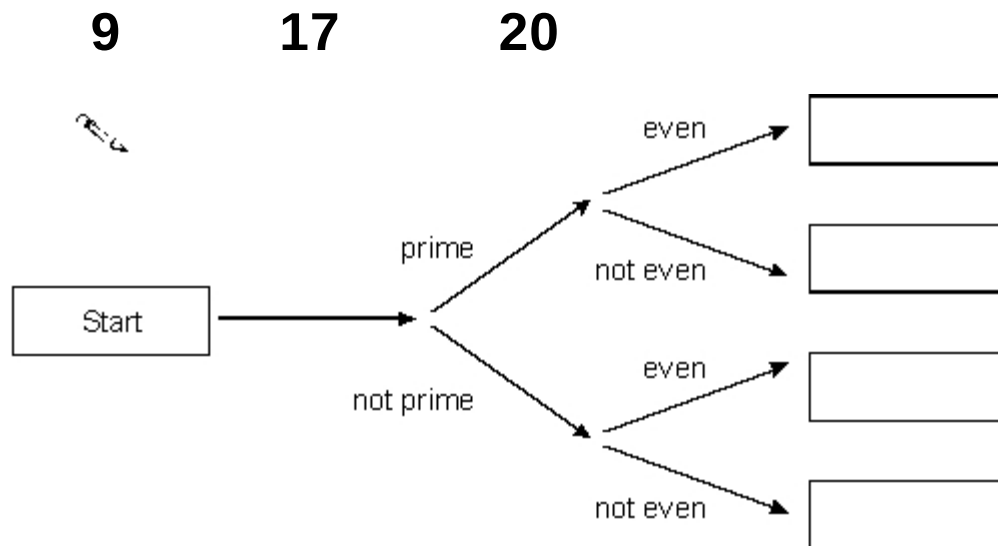
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a factor of 96

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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:										
	<ul style="list-style-type: none">a multiple of 9 <table><tr><td>2</td><td>7</td></tr></table> OR <table><tr><td>7</td><td>2</td></tr></table>a square number <table><tr><td>2</td><td>5</td></tr></table>a factor of 96 <table><tr><td>1</td><td>2</td></tr></table>			2	7	7	2	2	5	1	2
2	7										
7	2										
2	5										
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:										
	<table><tr><td></td></tr><tr><td>17</td></tr><tr><td>20</td></tr><tr><td>9</td></tr></table>				17	20	9				
17											
20											
9											
	If the answer is incorrect, award ONE mark for two numbers correctly placed.										
	<i>Do not accept a number repeated in different boxes.</i>										
	<i>Ignore any numbers on the diagram other than those given.</i>										
		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 OR 4 OR 16 OR 36 OR 64	1 OR 9 OR 25 OR 49 OR 81
not a square number	even AND not a square AND less than 100	odd AND not square AND 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]