

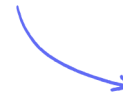
Non-Calculator Questions

# Number Toolkit

Types of Number / Mathematical Operations / Number Operations

Easy (9 questions)	/15
Medium (6 questions)	/8
Hard (3 questions)	/3
<b>Total Marks</b>	<b>/26</b>

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4 Here is a list of numbers.

87    77    57    47    27

From this list, write down

i) a cube number,

[1]

ii) a prime number.

[1]

**(2 marks)**

5

27    28    29    30    31    32    33

From the list of numbers, write down

i) a multiple of 7,

[1]

ii) a cube number,

[1]

iii) a prime number.

[1]

**(3 marks)**

- 6 The temperature at 07 00 is  $-3^{\circ}\text{C}$ .  
This temperature is  $11^{\circ}\text{C}$  higher than the temperature at 01 00.

Find the temperature at 01 00.

.....  $^{\circ}\text{C}$

**(1 mark)**

- 7 Write the number five million, two hundred and seven in figures.

**(1 mark)**

- 8 One day in Chamonix the temperature at noon was  $6^{\circ}\text{C}$ .  
At midnight the temperature was  $11^{\circ}\text{C}$  lower.

Write down the temperature at midnight.

.....  $^{\circ}\text{C}$

**(1 mark)**

- 9 Complete the list of factors of 36.

1, 2, ....., 36

**(2 marks)**

# Medium Questions

1 Work out  $(0.01)^2$ .

(1 mark)

2 Write down the cube number that is greater than 50 but less than 100.

(1 mark)

3 Write down a square number greater than 10.

(1 mark)

4 Calculate  $-12 \div -2$ .

(1 mark)

5 Here is a list of numbers.

21       $\frac{2}{3}$        $\sqrt{13}$       31       $\sqrt{121}$       51      0.7

From this list, write down

i) a prime number,

[1]

ii) an irrational number.

[1]

(2 marks)

6

22

17

25

41

39

4

Work out the difference between the two prime numbers in the list above.

**(2 marks)**

# Hard Questions

1 Write down an irrational number.

(1 mark)

2 Insert one pair of brackets to make this calculation correct.

$$7 - 5 - 3 + 4 = 9$$

(1 mark)

3  $a$  is a prime number.

$b$  is an even number.

$$N = a^2 + ab$$

Circle the correct statement about  $N$ .

could be  
even or odd

always even

always prime

always odd

(1 mark)