IGCSE · CIE · Maths

26 mins 18 questions

Non-Calculator Questions

Number Toolkit

Types of Number / Mathematical Operations / Number Operations

Easy (9 questions)	/15
Medium (6 questions)	/8
Hard (3 questions)	/3
Total Marks	**/26**

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Easy Questions

1 At noon the temperature in Maseru was 21°C.
At midnight the temperature had fallen by 26 °C.

Work out the temperature at midnight.

..... °C

(1 mark)

2 32 33 34 35 36 37 38 39

From the list of numbers, write down

i) a multiple of 8,

[1]

ii) a square number,

[1]

iii) a prime number.

[1]

(3 marks)

3 Write down the temperature that is 7 °C below -3 °C.

..... °C

(1 mark)

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 °C.
This temperature is 11 °C higher than the temperature at 01 00.

Find the temperature at 01 00.

..... °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°C.
At midnight the temperature was 11°C lower.

Write down the temperature at midnight.

..... °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.

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

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)