



## Negative Numbers and Roman Numerals

Reasoning

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Date: \_\_\_\_\_

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Time:

Marks: **48 marks**

Comments:

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**Q1.**

This table shows the temperature at 9 am on three days in January.

1st January	8th January	15th January
+5°C	-4°C	+1°C

What is the difference between the temperature on 1st January and the temperature on 8th January?

  
°C

1 mark

On 22nd January the temperature was 7 degrees lower than on 15th January.

What was the temperature on 22nd January?

  
°C

1 mark

**Q2.**

Put these temperatures in order, starting with the **lowest**.

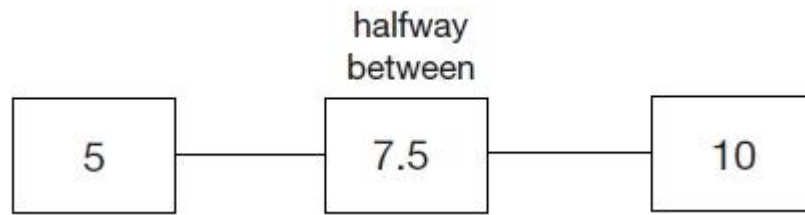
21°C	-13°C	-24°C	0°C	35°C
<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>	<input type="text" value=""/>
°C	°C	°C	°C	°C

lowest

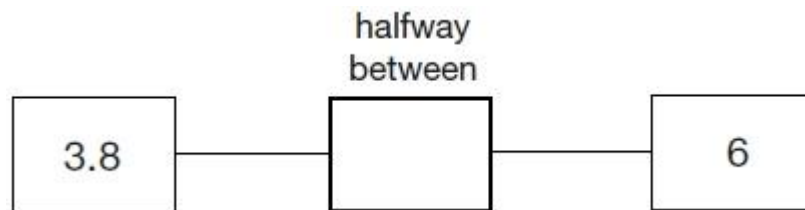
1 mark

**Q3.**

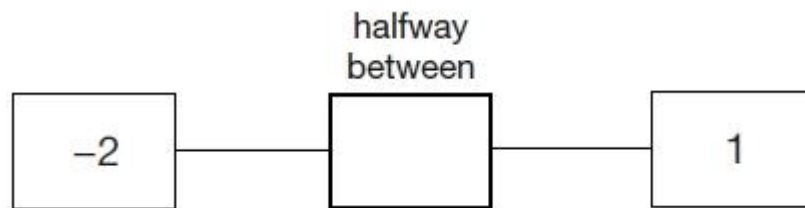
The number 7.5 is halfway between 5 and 10



Write in the missing numbers.



1 mark



1 mark

**Q4.**

Here is a number written in Roman numerals.

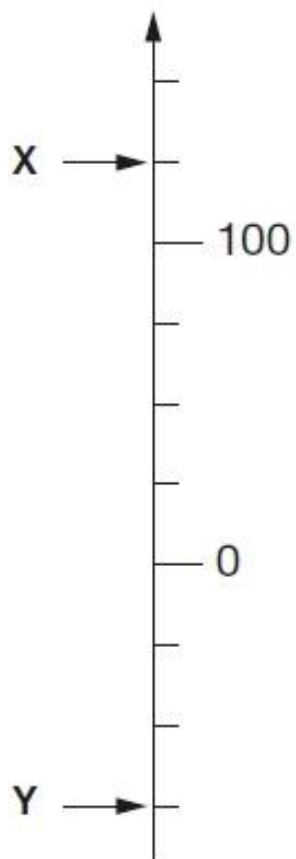
XXIV

Write the number in figures.

1 mark

**Q5.**

Here is part of a number line.



What is the value of **X**?

X =

1 mark

What is the value of **Y**?

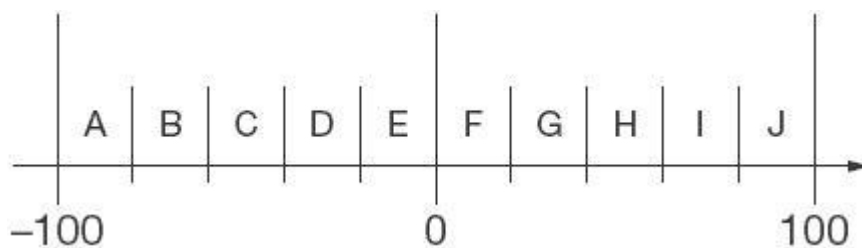
Y =

1 mark

**Q6.**

Here is part of a number line.

It is divided into equal sections.



Write the letter of the section where each of these numbers belongs.

The number 99 has been done for you.

number	section
99	J
29	
-83	
-15	
44	

2 marks

**Q7.**

Look at these numbers written in Roman numerals.

One is not written correctly.

Put a cross (X) on it.

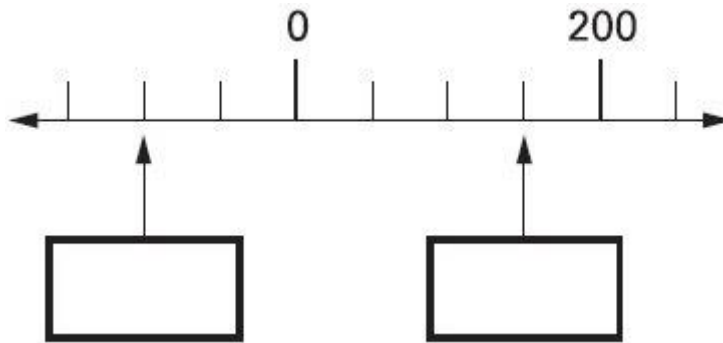
MMCM      MCMM      MMMC      MMCC      MCCC

1 mark

**Q8.**

Here is part of a number line.

Write the missing numbers in the boxes.



2 marks

**Q9.**

A sequence starts at **500** and **80** is **subtracted** each time.

500      420      340 ...

The sequence continues in the same way.

Write the **first two numbers** in the sequence which are **less than zero**.

2 marks

**Q10.**

Here is a number written in Roman numerals.

DCCIX

Write the number in figures.

1 mark

**Q11.**



The temperature **inside** an aeroplane is **20 °C**.

The temperature **outside** the aeroplane is **-30 °C**.

What is the **difference** between these temperatures?

<b>degrees</b>
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1 mark

**Q12.**

Liam makes a sequence of numbers starting with 300

He subtracts 125 each time.

Write the next two numbers in Liam's sequence.

300   175   50

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2 marks

**Q13.**

Here is a number written in Roman numerals.

**CXV**

Write the number in figures.

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1 mark

**Q14.**

At the end of a film, the year is given in Roman numerals.



Write the year MMVI in **figures**.

1 mark

**Q15.**

Write these temperatures in order from hottest to coldest.

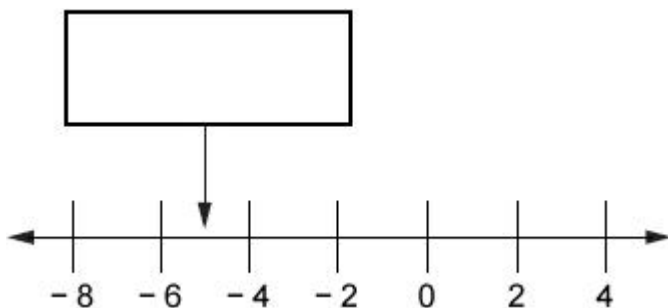
92°C	_____	hottest
37°C	_____	
-12°C	_____	
73°C	_____	
12°C	_____	
-2°C	_____	coldest

1 mark

**Q16.**

Here is part of a number line.

Write the number shown by the arrow.

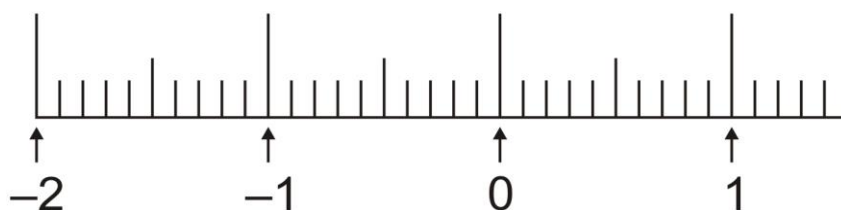


1 mark



**Q17.**

Mark with arrows the points  $-1.5$  and  $0.45$  on the number line.



2 marks

**Q18.**

Write the answers to these calculations in Roman numerals.

One has been done for you.

$$V + VI = XI$$

$$IX + XLV = \boxed{\phantom{0000}}$$

$$XC - XXIV = \boxed{\phantom{0000}}$$

2 marks

**Q19.**

Complete the table.

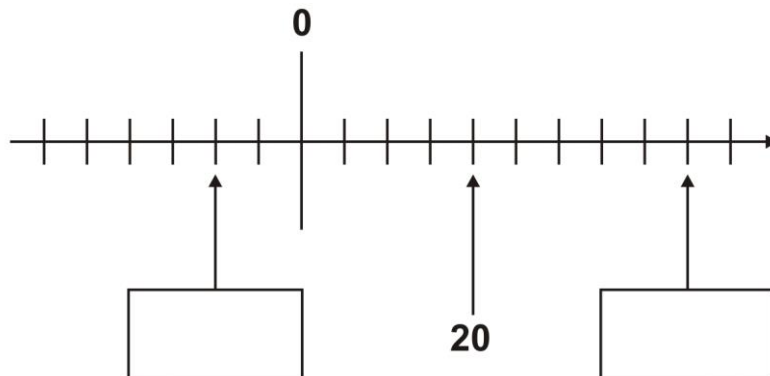
Number	Roman Numerals
LX	60
LXXVI	
XCIII	

2 marks

**Q20.**

Here is part of a number line.

Write the missing numbers in the boxes.



2 marks

**Q21.**

Megan makes a sequence of numbers starting with **100**

She **subtracts 45** each time.

Write the next **two** numbers in the sequence.

100   55   10     

2 mark

**Q22.**

Circle **two** numbers with a **difference** of **8**

-5   -4   -3   -2   -1   0   1   2   3   4   5

1 mark

Write **two** numbers with a **sum** of **-6**

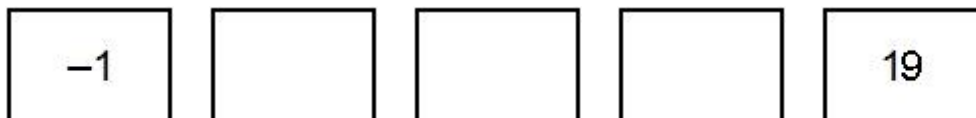
1 mark

**Q23.**

Jon makes a sequence of numbers.

His rule is to add the **same amount** each time.

Write in the missing numbers.



1 mark

**Q24.**

Circle **two numbers** which have a **difference of 2**

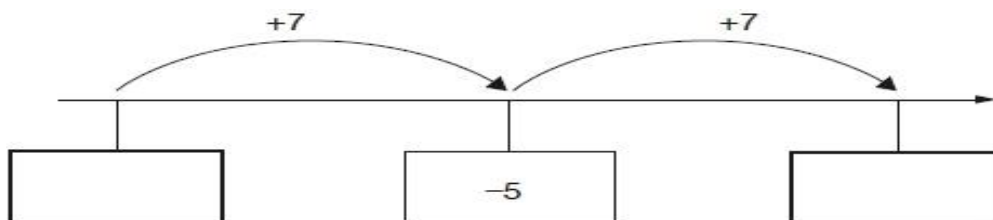
$-1$      $-0.5$      $0$      $0.5$      $1$      $1.5$

1 mark

**Q25.**

Here is part of a number line.

Write the missing numbers in the boxes.



2 marks

**Q26.**

Look at these numbers written in Roman numerals.

MCMVII    MMCD    MDCCXLIII    MMDX

Circle the **largest** number.

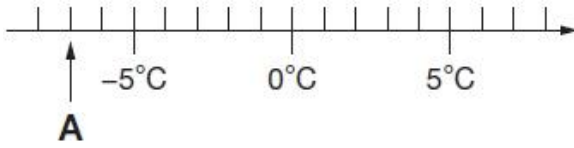
What is the value of the **smallest** number?

An empty rectangular box with a black border, intended for the student to write the value of the smallest number.

2 marks

**Q27.**

Here is part of a temperature scale.



What is the temperature shown at **A**?

 °C

1 mark

What temperature is 20 degrees **higher** than **A**?

 °C

1 mark

**Q28.**

Paulo makes a sequence of numbers.

He chooses a starting number and then subtracts equal amounts each time.

The **third number** in his sequence is **45**

The **tenth number** is **-32**



What is the **first** number in the sequence?

Show your method

A large grid for showing the method. A small box is provided for the final answer.

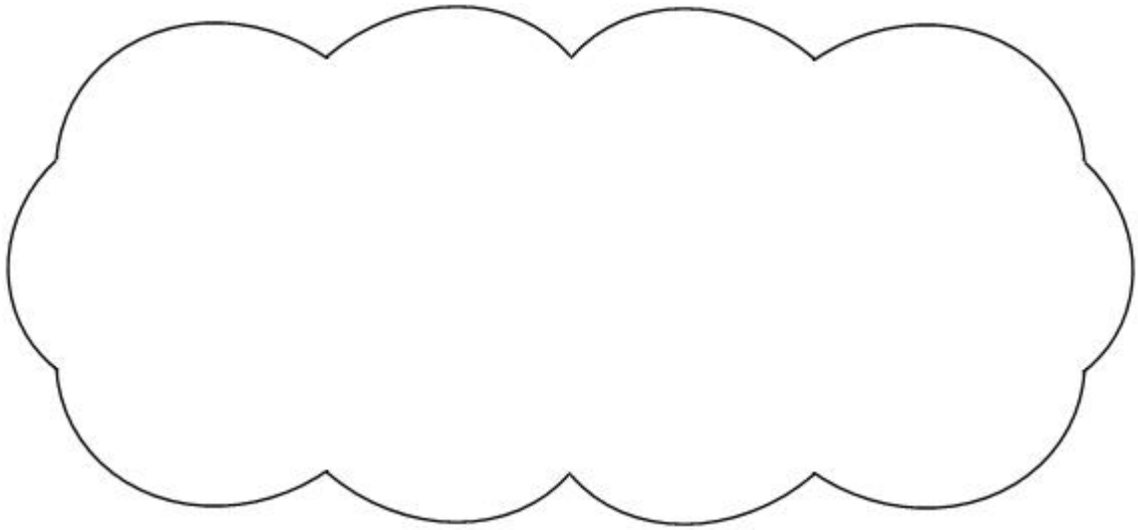
2 marks





The answer could be positive or negative.

Explain how you know.



1 mark