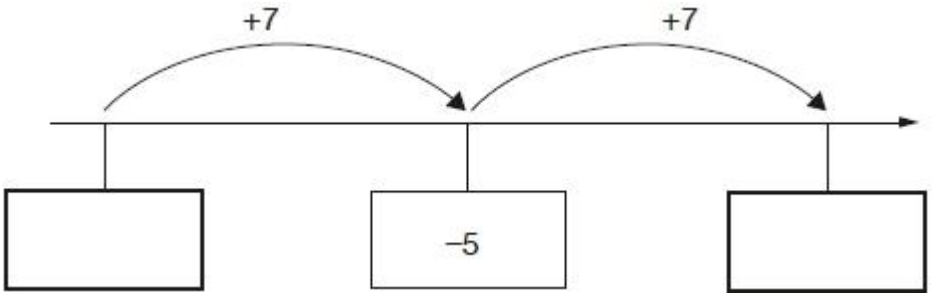
Q1.

Here is part of a number line.

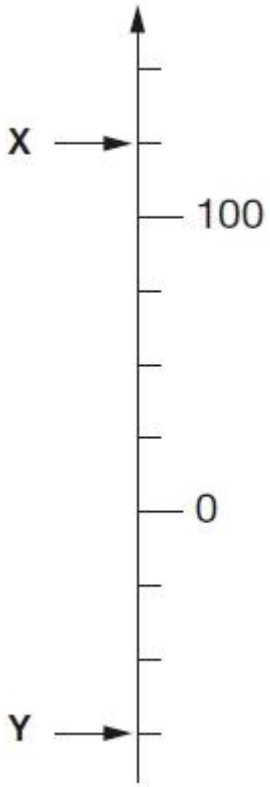
Write the missing numbers in the boxes.



2 marks

Q2.

Here is part of a number line.



What is the value of **X**?

X = ☐

1 mark

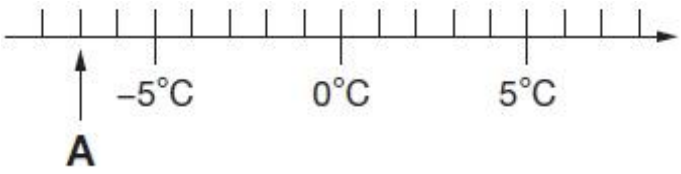
What is the value of **Y**?

Y =

1 mark

Q3.

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**?

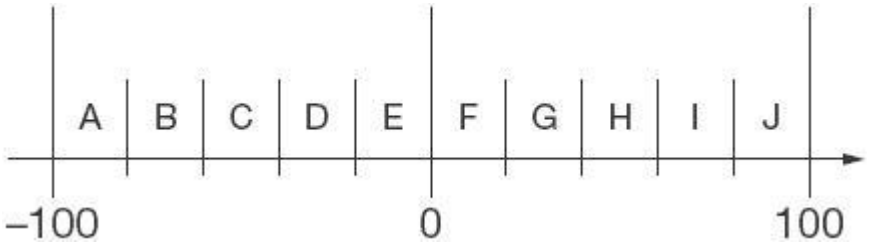
°C

1 mark

Q4.

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.

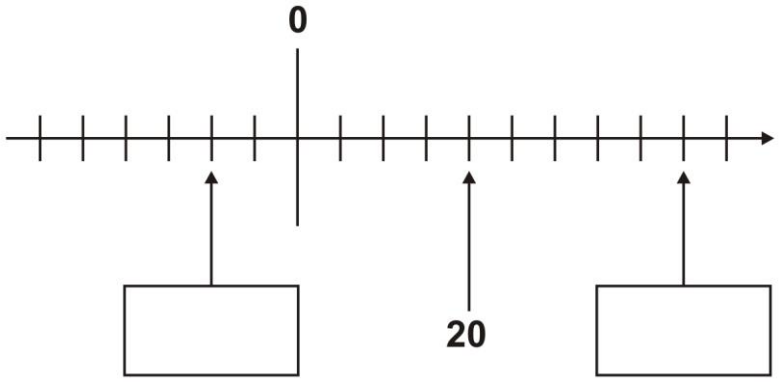
number	section
99	J
29	
–83	
–15	
44	

2 marks

Q5.

Here is part of a number line.

Write the missing numbers in the boxes.



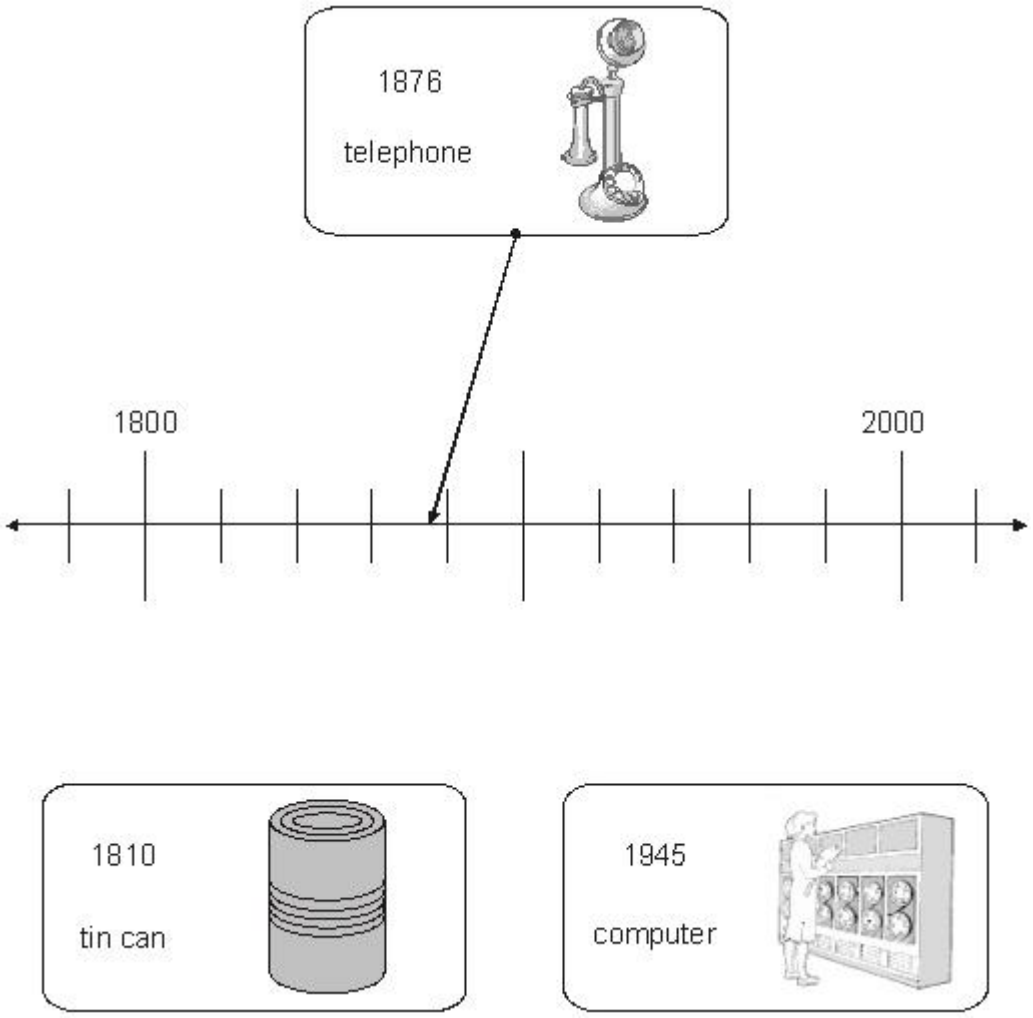
2 marks

Q6.

Here is part of a time line.

Draw a line from each invention to the correct point on the time line.

One has been done for you.

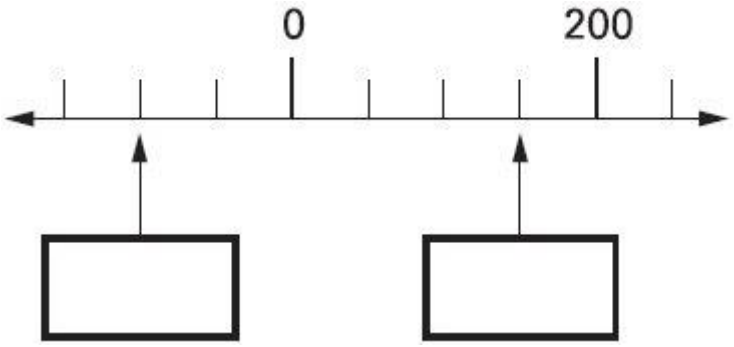


2 marks

Q7.

Here is part of a number line.

Write the missing numbers in the boxes.

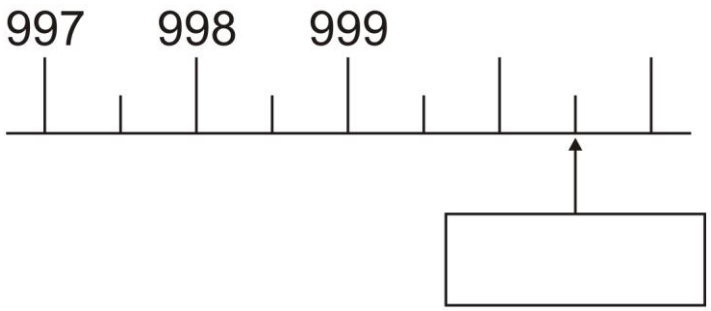


2 marks

Q8.

Here is part of a number line.

Write the number shown by the arrow.



1 mark

Q9.

Here are the temperatures in four cities at midnight and at midday.

	Temperature	
City	**At midnight**	**At midday**
Paris	−4°C	−2°C
Oslo	−13°C	−7°C
Rome	3°C	10°C
Warsaw	−6°C	2°C

At **midnight**, how many degrees colder was Paris than Rome?

degrees

1 mark

Which city was 6 degrees colder at midnight than at midday?

1 mark

Q10.

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

Q11.

This weather chart shows the highest and lowest temperatures in a town on five days in March.

	Temperature °C	
	highest	lowest
Monday	+7	0
Tuesday	+7	–2
Wednesday	+8	–2
Thursday	+9	+1
Friday	+4	–5

Which day has the greatest difference between the highest and the lowest temperatures?

_____

1 mark

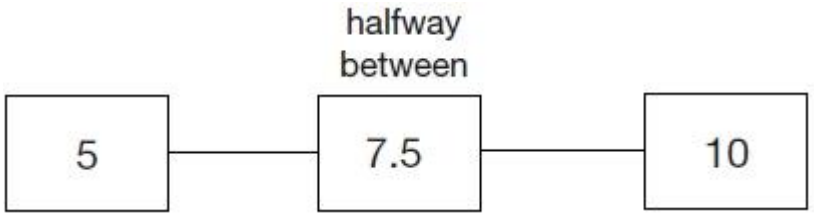
What is the difference between the lowest temperatures on Thursday and Friday?

degrees

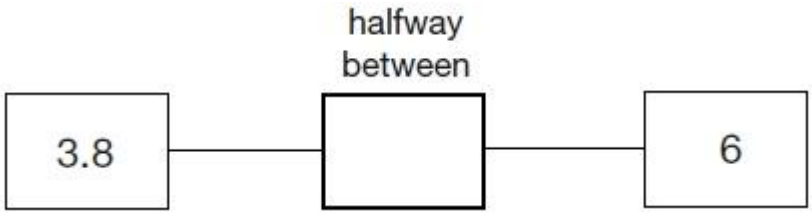
1 mark

Q12.

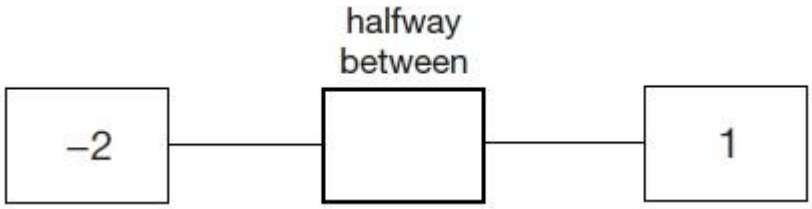
The number 7.5 is halfway between 5 and 10



Write in the missing numbers.



1 mark



1 mark

Q13.

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 ☐ ☐

2 marks

Q14.

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

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

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

degrees

1 mark

Q15.

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

–1 –0.5 0 0.5 1 1.5

1 mark

Q16.

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

She **subtracts 45** each time.

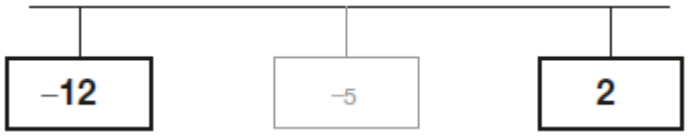
Write the next **two** numbers in the sequence.

100 55 10 ☐ ☐

2 mark

Q1.

Award **TWO** marks for both numbers correct as shown.



If the answer is incorrect, award **ONE** mark for one number correct.

Do not *accept 12−*

Accept +2 in the right-hand box.

Up to 2

[2]

Q2.

(a) **X** = 125

1

(b) **Y** = -75

Do not *accept 75−*

1

[2]

Q3.

(a) −7°C

Do not *accept 7−*

1

(b) 13°C

If (a) is negative allow follow through in part (b) for ***ONE*** *mark.*

1

[2]

Q4.

Award **TWO** marks for all four letters in the correct order as shown:

99 *J*

29 **G**

–83 **A**

–15 **E**

44 **H**

If the answer is incorrect, award **ONE** mark for three letters correct.

Up to 2

[2]

Q5.

(a) –10

***Do not** accept 10–*

1

(b) 45

1

[2]

Q6.

(a) Answer for tin can joined to the time line in the range 1805 to 1815 exclusive.

1

(b) Answer for computer joined to the time line in the range 1940 to 1950 exclusive.

1

[2]

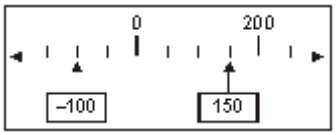
Q7.

(a) –100 written in the left-hand box.

***Do not** accept 100–*

1

(b) 150 written in the right-hand box.



1

[2]

Q8.

1000 ½ **OR** 1000.5

Accept the answer in words, eg

- *'1000 and a half'.*

[1]

Q9.

(a) 7

***Do not** accept −7 or 7−*

1

(b) Oslo

Accept unambiguous abbreviations or recognisable misspellings.

1

[2]

Q10.

(a) 9

Do not *accept –9 or 9–*

1

(b) –6

Do not *accept 6–*

1

[2]

Q11.

Wednesday

Accept unambiguous abbreviations or recognisable misspellings.

1

6

Do not *accept −6*

1

[2]

Q12.

(a) 4.9

Accept equivalent fractions and decimals

1

(b) −0.5

Accept $-\frac{1}{2}$

1

[2]

Q13.

(a) –75 in the first box

Do not *accept 75–*

1

(b) –200 in the second box

Do not *accept 200–*

Accept a number 125 less than the answer to (a), provided the answer to 18a is negative.

1

[2]

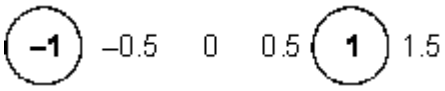
Q14.

50

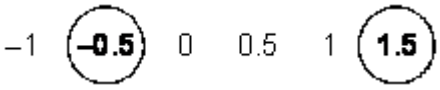
Accept –50

[1]

Q15.



OR



Accept alternative indications, eg the numbers crossed or underlined.

[1]

Q16.

(a) –35 (in left-hand box)

*Accept for **ONE** mark '35–' **AND** '80–'*

1

(b) –80 (in right-hand box)

*Accept for **ONE** mark any two **negative** numbers such that the second is 45 less than the first.*

1

[2]