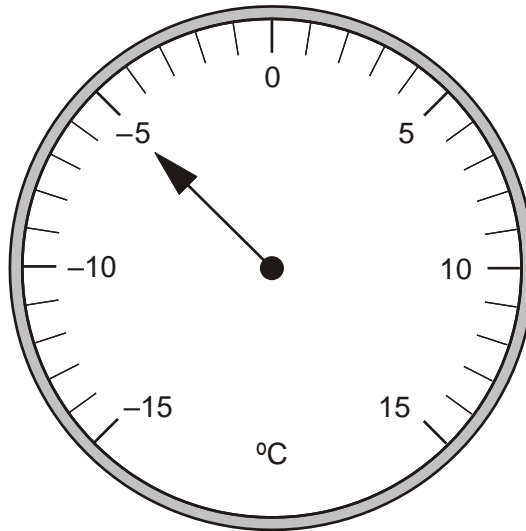
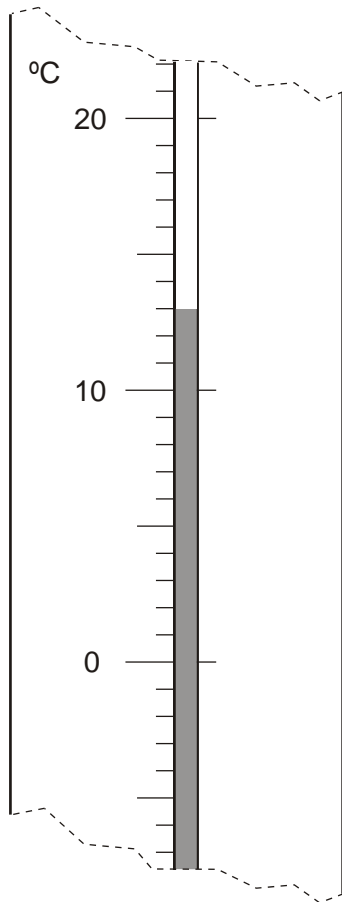


1. Here are two thermometers.
They show two different temperatures.



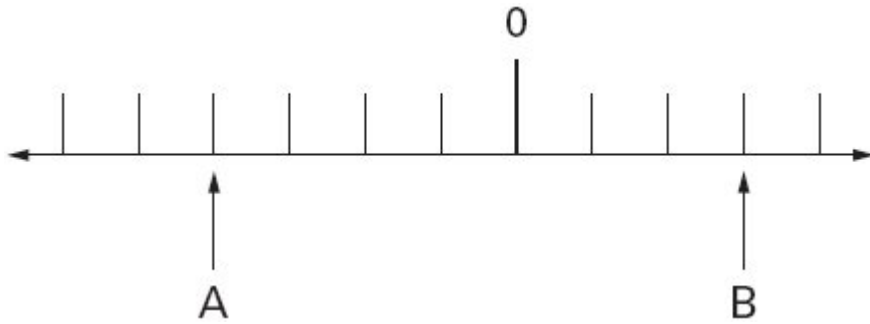
What is the **difference** between the two temperatures?



degrees



1 mark

2. **A** and **B** are two numbers on the number line below.



The **difference** between **A** and **B** is 140

Write the values of **A** and **B**.

  Show your **working**. You may get a mark.

A = B =

2 marks


3.



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

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

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




1 mark

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

500 420 340 ...

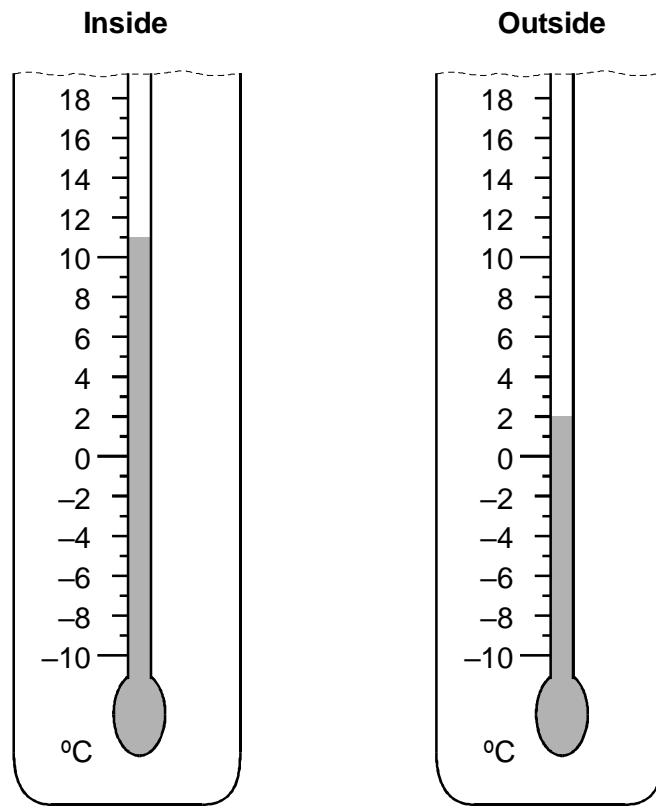
The sequence continues in the same way.

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




2 marks

5. Two thermometers show the temperature inside and outside a greenhouse on a day in January.



How many degrees **warmer** was it inside the greenhouse than outside?


 °C

1 mark

Later the temperatures were

inside	outside
-1°C	-8°C

What is the difference between these two temperatures?


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

1 mark

6. Paulo makes a sequence of numbers.


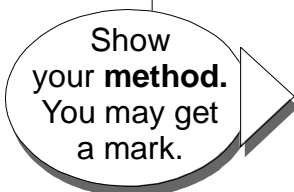
He chooses a starting number and then subtracts equal amounts each time.

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

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

<input type="text"/>	<input type="text"/>	45	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	-32
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What is the **first** number in the sequence?

2 marks

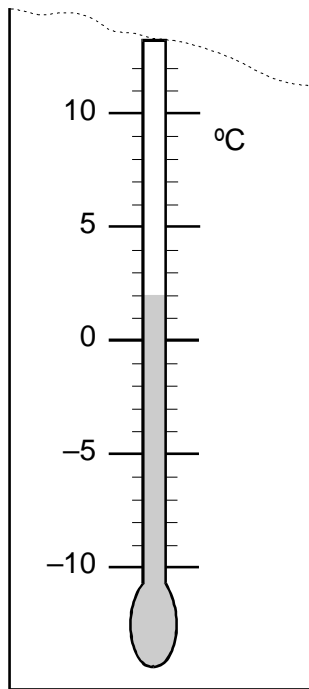
7. Circle **two numbers** which have a **difference of 2**



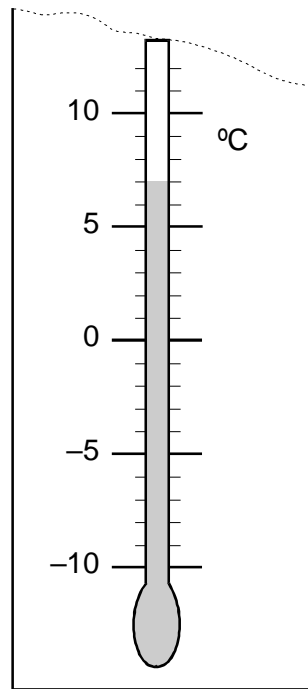
-1 -0.5 0 0.5 1 1.5

1 mark

8. These are the temperatures in York and Rome on a day in winter.



York



Rome

How many degrees **colder** is it in York than in **Rome**?




1 mark

On another day, the temperature in York is 4°C

Rome is **7 degrees colder** than York.

What is the temperature in **Rome**?


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

1 mark

9. 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

10. Here is a table of temperatures at dawn on the same day.

Temperatures °C	
London	-4°
Moscow	-6°
New York	-9°
Paris	+6°
Sydney	+14°


What is the **difference** in temperature between **London** and **Paris**?


 °C

1 mark

At noon the temperature in **New York** has **risen by 5°C**.

What is the temperature in **New York** at noon?


 °C

1 mark