

# Y6 SATS

# Negative Numbers

Help Code : 013

2002A KS2 Q20



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.





Video Coming Soon!

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?



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

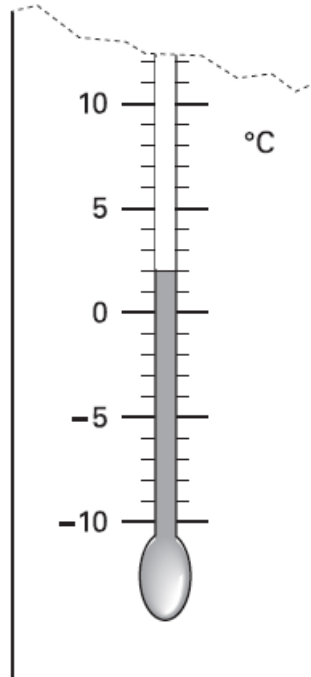



# BOOSTER

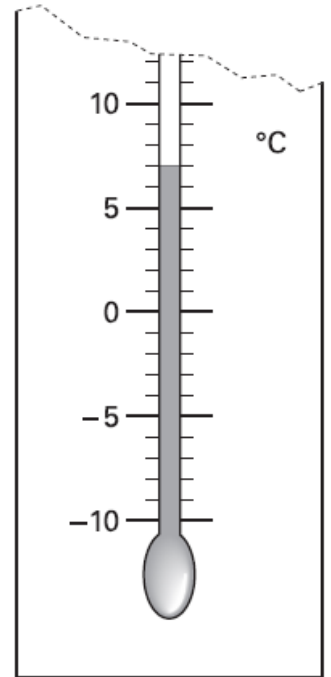


2000A KS2 Q8

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?



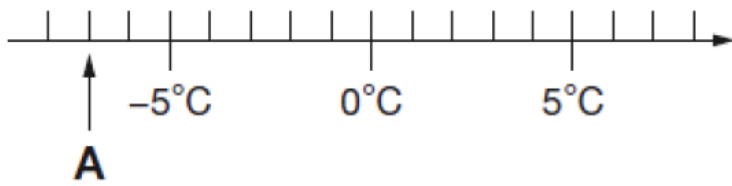

On another day, the temperature in York is 4°C. Rome is 7 degrees colder than York.

What is the temperature in Rome?



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Here is part of a temperature scale.



What is the temperature shown at A?

  °C

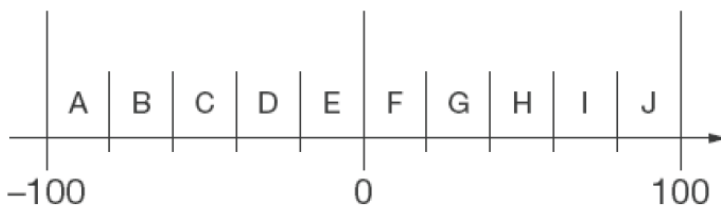
What temperature is 20 degrees higher than A?

  °C

Video Coming Soon!

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	

Video Coming Soon!

Jon makes a sequence of numbers.

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

Write in the missing numbers.

-1     19

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I am thinking of a number that is not zero.

I **multiply** my number by **-5**

Tick (✓) the statement below that is true.

The answer must be positive.

The answer must be negative.

The answer could be positive or negative.

Explain how you know.

Video Coming Soon!

Liam makes a sequence of numbers starting with 300

He subtracts 125 each time.

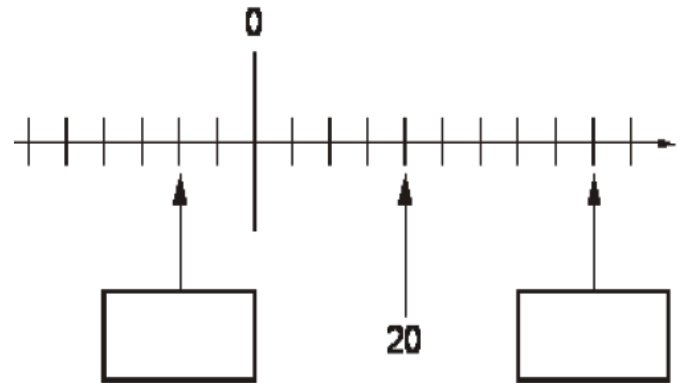
Write the next two numbers in Liam's sequence.

300 175 50

Video Coming Soon!

Here is part of a number line.

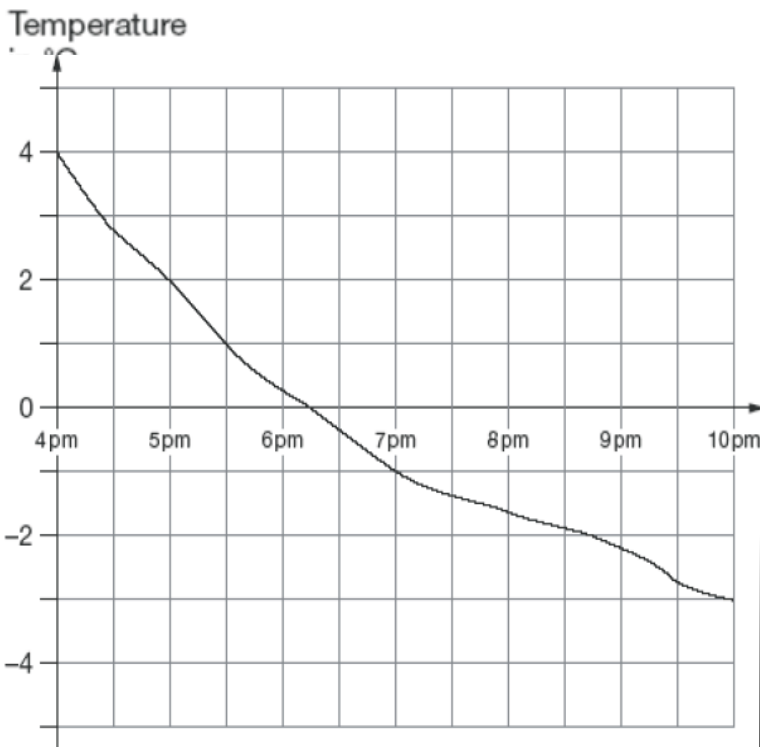
Write the missing numbers in the boxes.



Video Coming Soon!

This graph shows the outside temperature

from 4pm to 10pm on a day in winter.



At what time was the temperature  $-2^{\circ}\text{C}$ ?



How many degrees did the temperature drop from 5pm to 7pm?

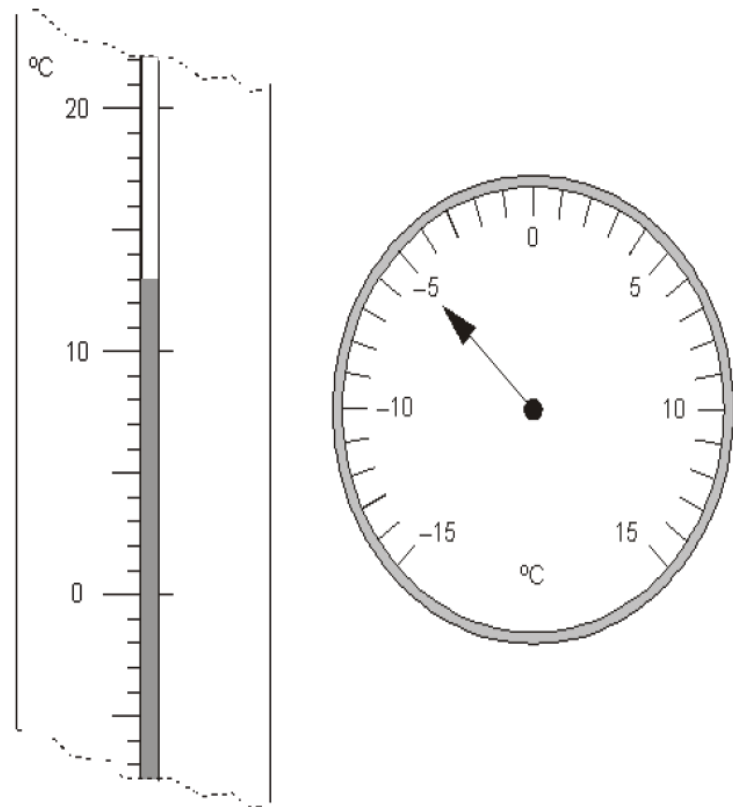


degrees

Video Coming Soon!

Here are two thermometers.

They show two different temperatures.



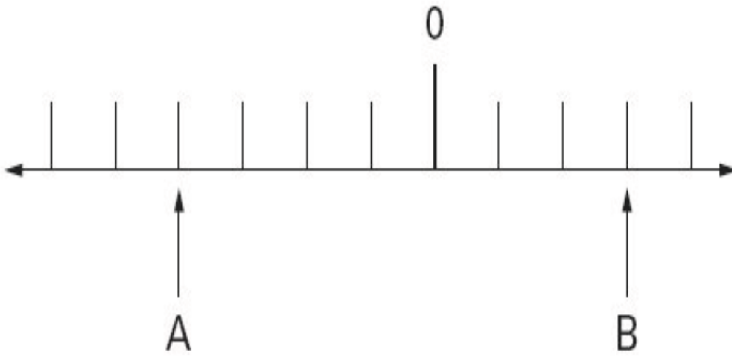
What is the **difference** between the two temperatures?



degrees

Video Coming Soon!

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 =

Video Coming Soon!



The temperature **inside** an aeroplane is  $20^{\circ}\text{C}$ .

The temperature **outside** the aeroplane is  $-30^{\circ}\text{C}$ .

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

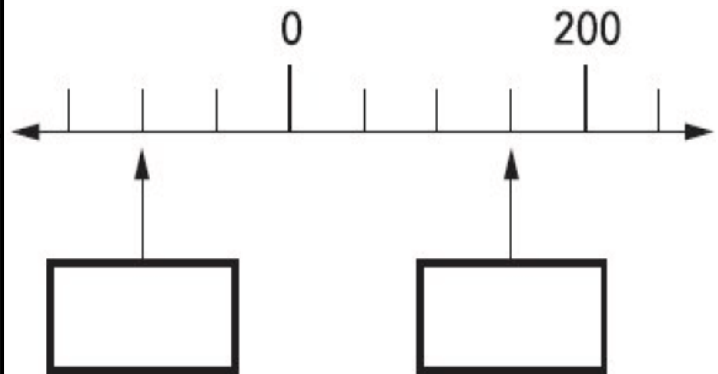


degrees

Video Coming Soon!

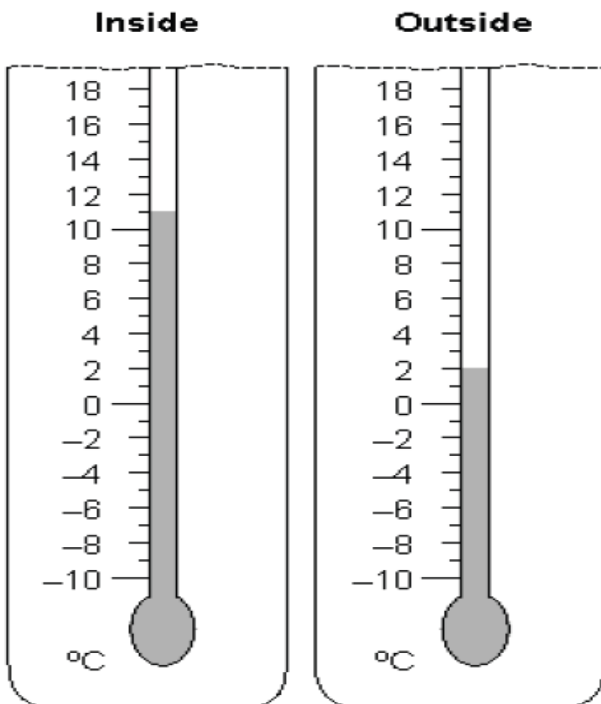
Here is part of a number line.

Write the missing numbers in the boxes.



Video Coming Soon!

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?



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

Later the temperatures were

inside	outside
$-1^{\circ}\text{C}$	$-8^{\circ}\text{C}$

What is the difference between these two temperatures?



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

Video Coming Soon!

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 **working**.  
You may get a mark

Video Coming Soon!

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

-1   -0.5   0   0.5   1   1.5

Video Coming Soon!

Megan makes a sequence of numbers starting with 100.  
She **subtracts 45** each time.

100   55   10     

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

Video Coming Soon!

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

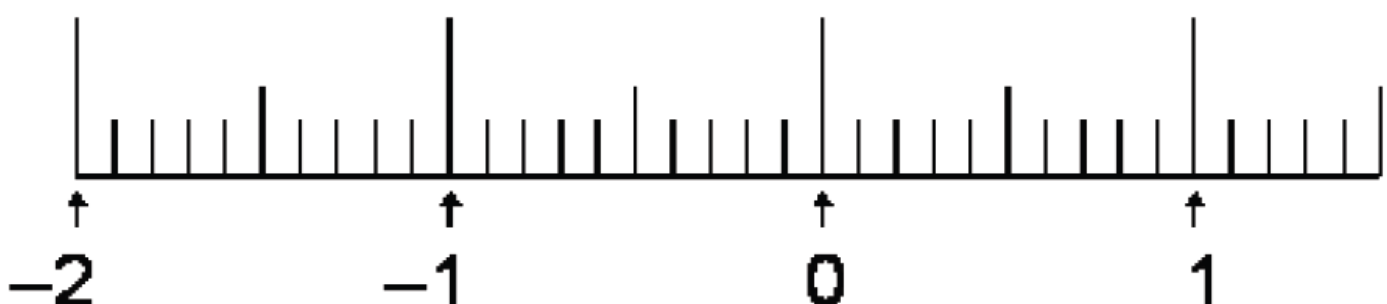
-5   -4   -3   -2   -1   0   1   2   3   4   5

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

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



Video Coming Soon!

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

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

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

→  °C

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Abdi starts a sequence of numbers.  
He begins with **10 000** and **subtracts 7** each time.  
The first five numbers in his sequence are

**10 000      9 993      9 986      9 979      9 972 ...**

Abdi says,

***“If I continue my sequence, the first negative number in it will be -3.”***

Is Abdi **correct**? Circle **Yes** and **No**.

→  **Yes / No**

Explain how you know.

.....  
.....  
.....

Carol has a rule for a sequence of numbers.

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Her rule is

***“The next number is the sum of the two previous numbers.”***

Use Carol’s rule to write in the three missing numbers.



, , , 0, 1, 1, 2, 3, 5, 8, ...

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