Alavi

21st Century Schools


HELLO

Voabulary

Do you know what we call numbers more than zero?

positive: a positive number is greater than zero.

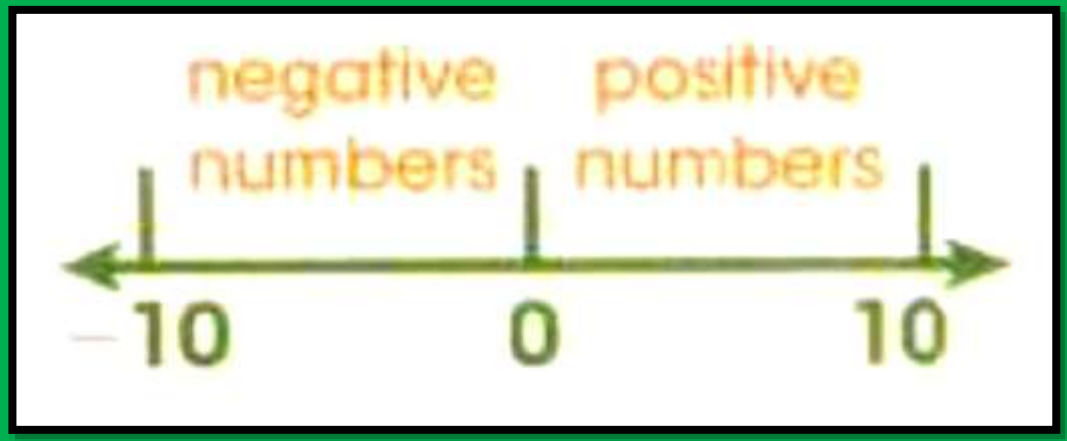
Do you know what we call numbers less than zero?

negative: a negative number is less than zero.

We use a – sign to show a negative number.

zero: is another name for 'nothing' or 'nought'.

On a number line it is the point where numbers change from positive to negative.



A **positive** number is a number greater than zero, for example 5.

1 2 3 4 5 6 7 8 9 10 …. 67 …. 82…. 100…….

Is zero a positive number ? No, numbers greater than zero are positive

A **negative** number is a number less than zero, for example –1.

-1 -2 -3 -4 -5 -6 -7 -8 -9 -10

…. -67 …. -82…. -100…….

Is zero a negative number ? No, numbers less than zero are negative

Integer

What Is an Integer?

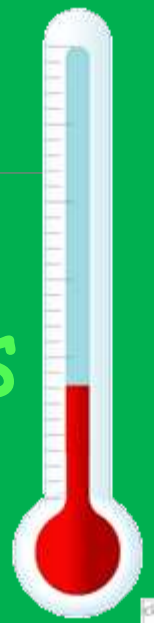
The + sign in front of a number tells that it is a **positive integer.**

The − sign in front of a number tells that it is a **negative integer.**

Numbers such as +24 and −18 are **integers.**

Look at this thermometer

In the summer the temperature is always positive because it is more than zero.



Temperature is measured in degrees Celsius (°C).

Look at ice, at what temperature does water freeze?

Water freezes at 0°C.

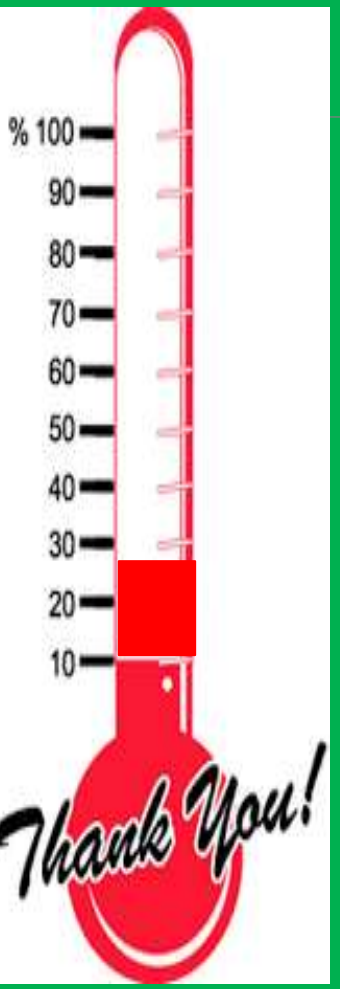
On a typical summer day in La Ronge, Saskatchewan, the temperature might be 24 degrees Celsius above zero.

A temperature greater than 0°C is positive.

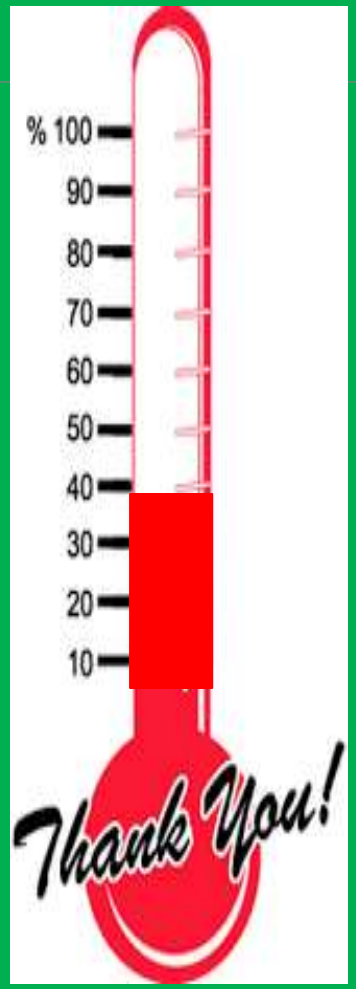
We write: +24°C

We say: twenty-four degrees Celsius

It is summer how hot is it?

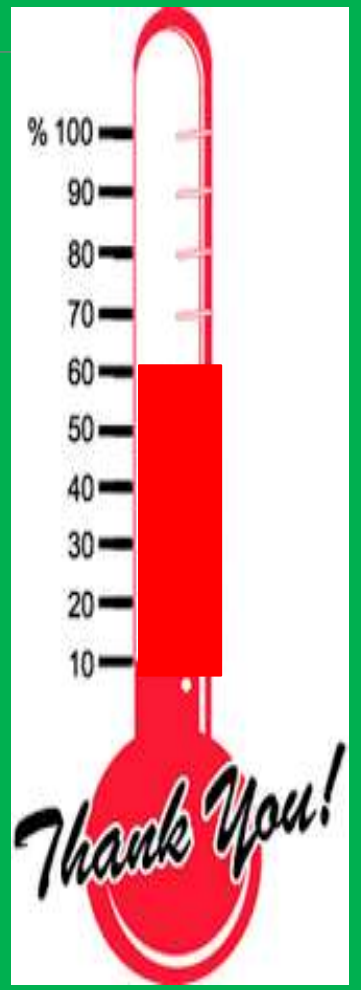


Saturday



Monday

Tuesday

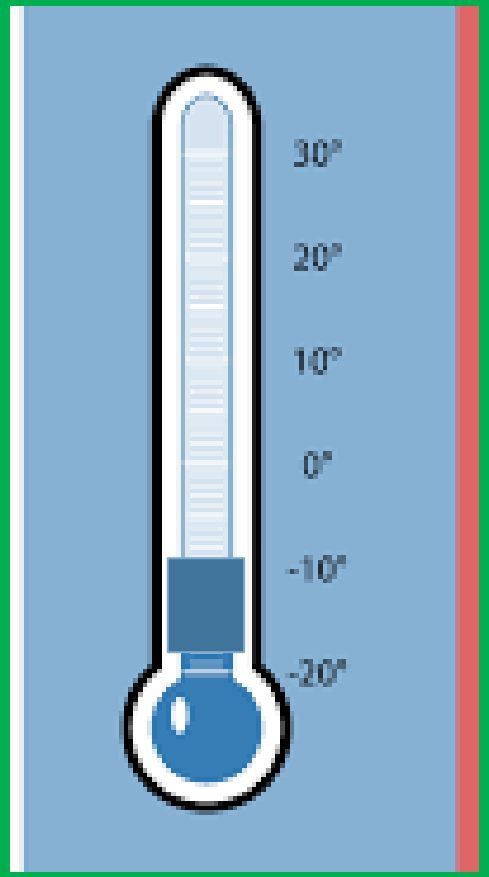


On a typical winter day in La Ronge,
the temperature might be
18 degrees Celsius below zero.

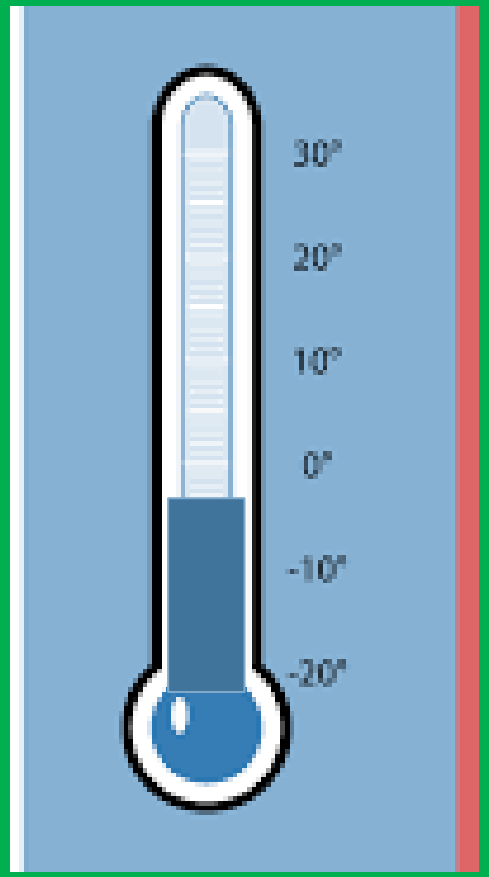
A temperature less than 0°C
is negative.
We write: −18°C
We say: **negative** eighteen degrees Celsius

It is winter in Russia, how cold is it?

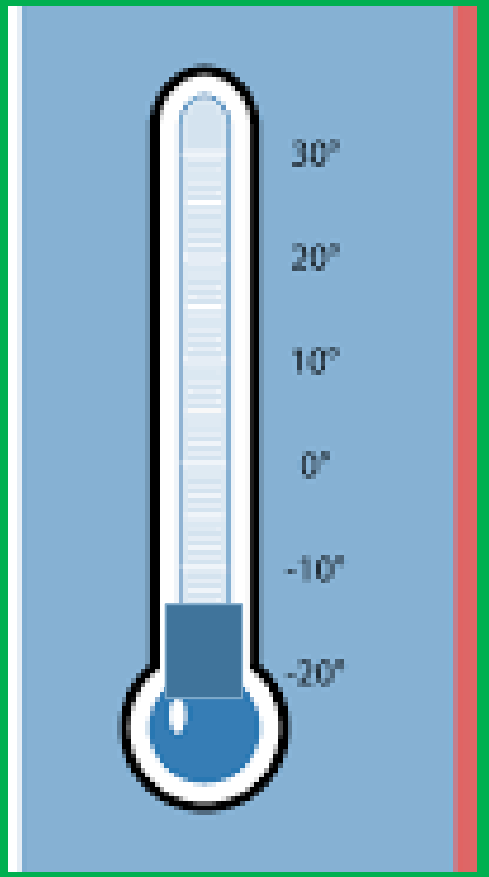
Monday



Tuesday

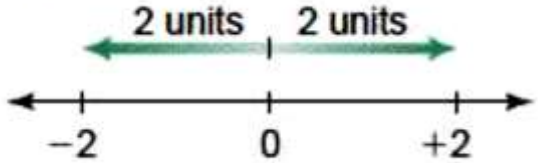


Friday



- **Opposite integers** are the same distance from 0 but are on opposite sides of 0.

For example, +2 and −2 are opposite integers.
They are the same distance from 0 and are on opposite sides of 0.



What is the opposite integer?

-2

+7

+9

-20

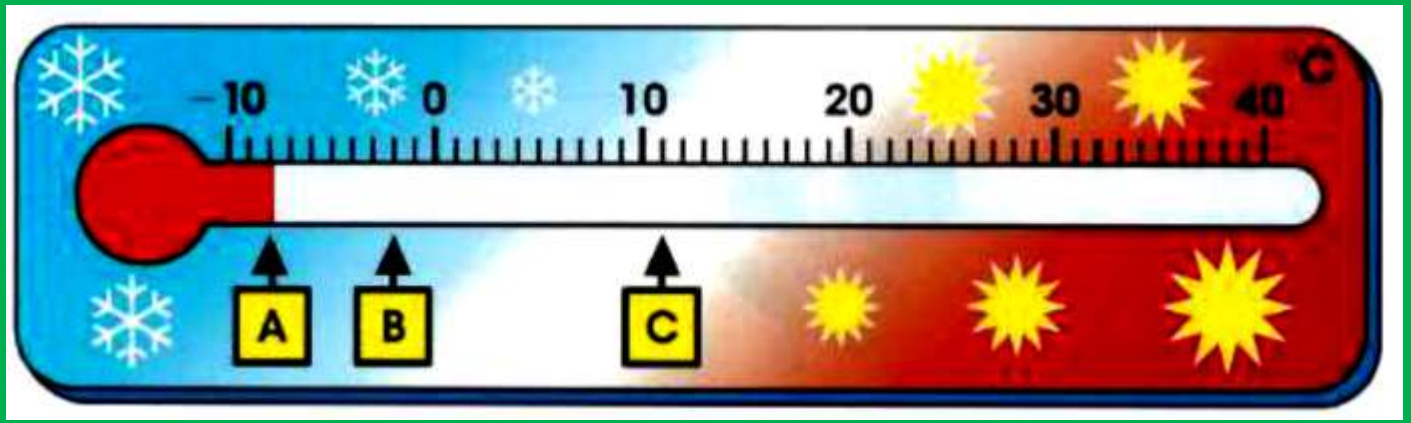
+5

- 15

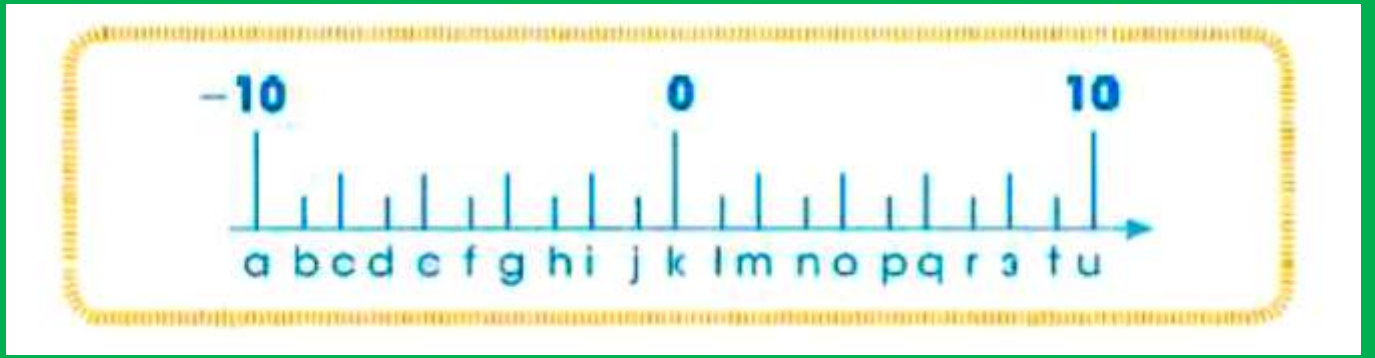
-3

Look at this thermometer.

Which numbers are represented by the boxes marked **A**, **B** and **C**?

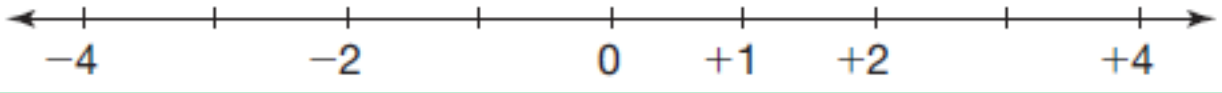


The numbers on the number line below represent letters of the alphabet.



Copy each number line. Fill in the missing integers.

a)



b)

Write the opposite of each integer.

Mark each pair of integers on a number line.

Describe any patterns you see.

Describe any patterns you see.

a) $+3$ **b)** -1 **c)** -19 **d)** $+10$

Thank you