

Alavi

21st Century Schools



Hello
Friend

Comparing and ordering integers

A small grey speaker icon with sound waves is positioned between the words "Comparing" and "ordering".

Do you remember?

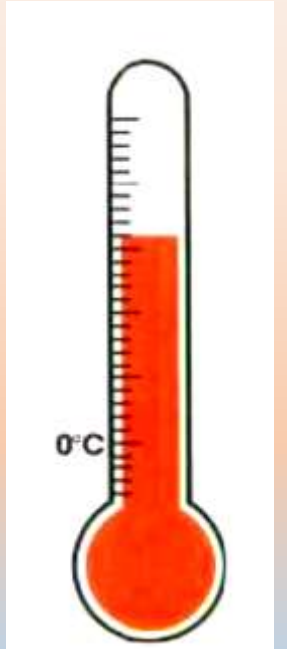
Negative
integers

Positive
integers



0

In the summer the thermometer shows the **positive integers**.



In the winter the thermometer shows the **negative integers**.

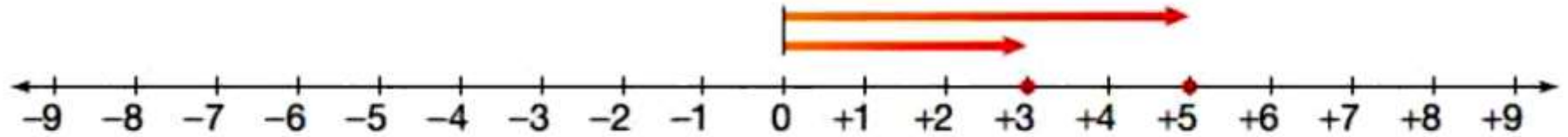
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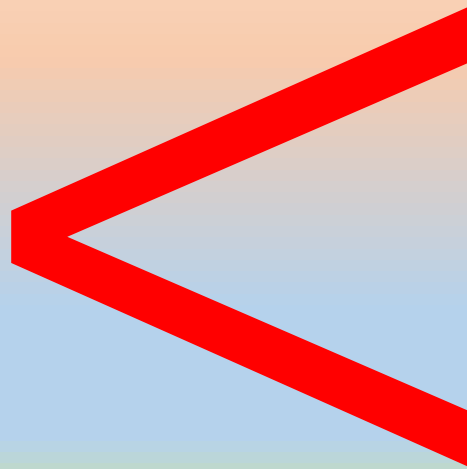
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We can use a number line to order integers.

- We use the symbols $>$ and $<$ to show order. The symbol points to the lesser number.



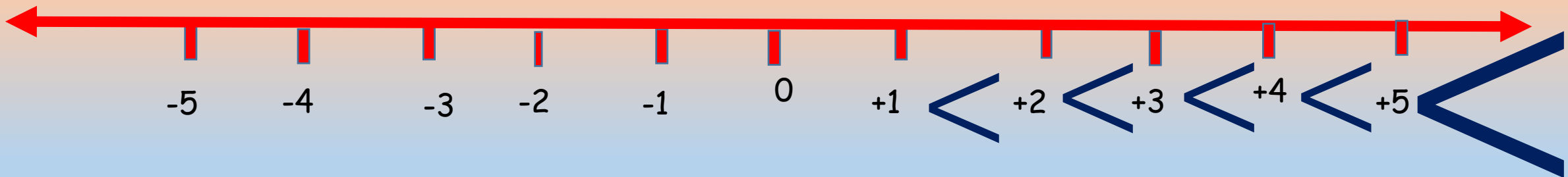
Negative
integers



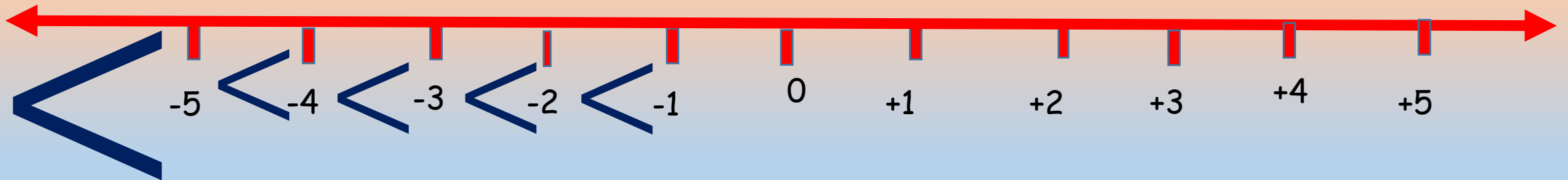
Positive
integers

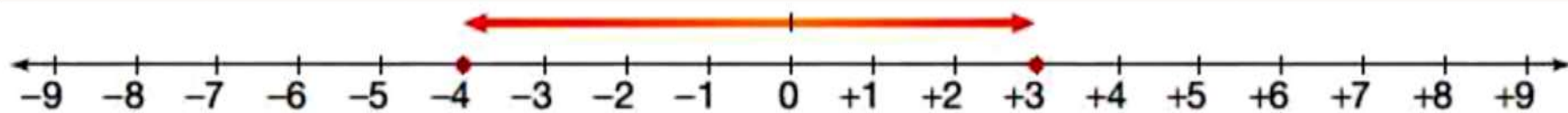
We can use a number line to order integers

+5 is to the right of +3 on a number line.
+5 is greater than +3, so we write: $+5 > +3$
+3 is less than +5, so we write: $+3 < +5$



Comparing negative integers

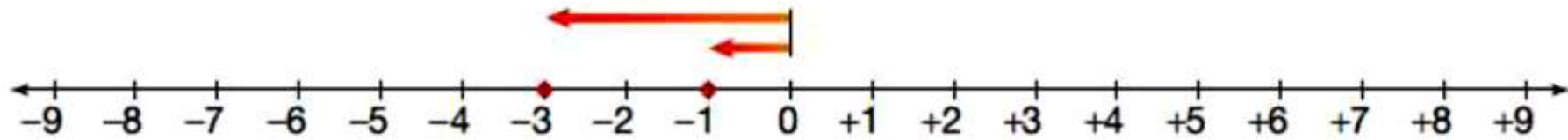




+3 is to the right of -4 on a number line.

+3 is greater than -4, so we write: $+3 > -4$

-4 is less than +3, so we write: $-4 < +3$

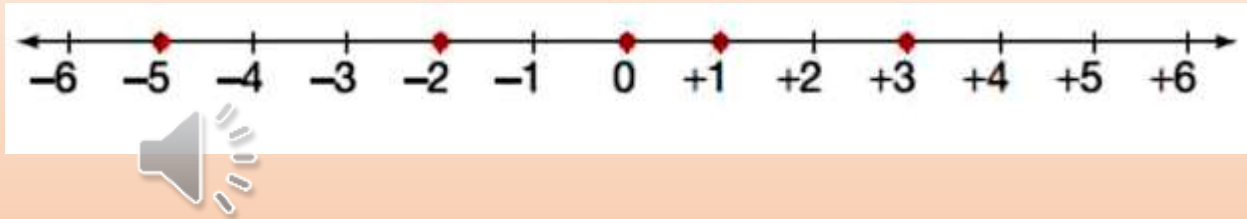


-3 is to the left of -1 on a number line.

-3 is less than -1, so we write: $-3 < -1$

-1 is greater than -3, so we write: $-1 > -3$

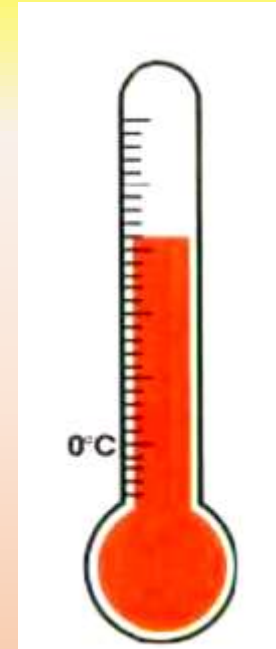
To order the integers 0, +1, -2, +3, and -5,
draw a number line from -6 to +6.
Mark each integer on the number line.



The integers increase from left to right.
So, the integers from least to greatest are:
-5, -2, 0, +1, +3

The table shows the minimum temperature on four days.

Day	Temperature °C
Monday	-2
Tuesday	1
Wednesday	3
Thursday	-4



Write the temperatures in order, starting with the coldest temperature.

Write each set of temperatures in order, starting with the coldest temperature.

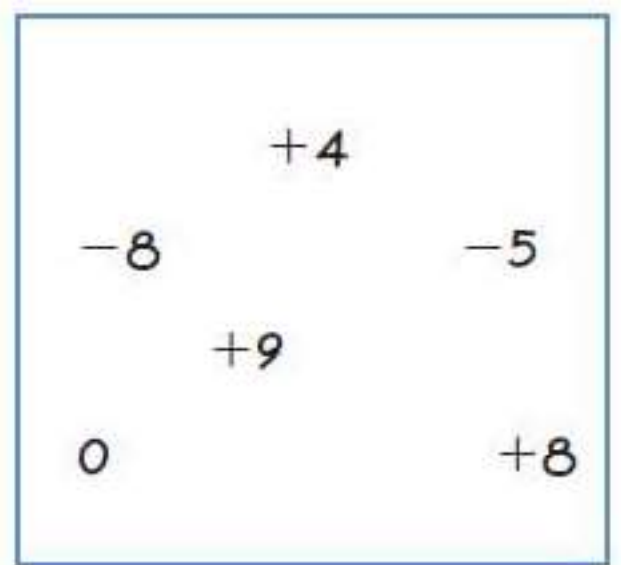
(a) -4°C 1°C -8°C -2°C 3°C

(b) -2°C 4°C -7°C -13°C 13°C

(c) 6°C -6°C 0°C -7°C -4°C

Look at the integers in the box.

- a) Which integers are:
- i) greater than 0?
 - ii) between -3 and $+3$?
 - iii) greater than -10 and less than -5 ?
 - iv) less than $+1$?
- b) What other questions can you ask about these integers?
Write down your questions and answer them.



Order the integers in each set from least to greatest.

a) +5, -5, +4, +2, -2

b) -8, -12, +10, 0, -10

c) +41, -39, -41, -15, -25

d) +1, -1, +2, -2, +3

Order the integers in each set from greatest to least.

a) -7, +8, -9, +10, -11

b) -18, 16, -11, -4, +6

c) 0, +1, +2, -1, -2

d) +14, -25, -30, +3, -10

On January 16, 2008, these temperatures were recorded in Canada.

Place	Temperature	Place	Temperature
Lethbridge, AB	-16°C	Iqaluit, NU	-29°C
La Ronge, SK	-27°C	Dawson City, YT	-26°C
Hay River, NWT	-29°C	Prince George, BC	-6°C
Campbell River, BC	0°C	Ste. Rose du Lac, MB	-17°C

Which place was the warmest? The coldest? How did you find out?

Thank
not

