Alavi

21st Century Schools


Hello
Friend

Comparing and ordering integers

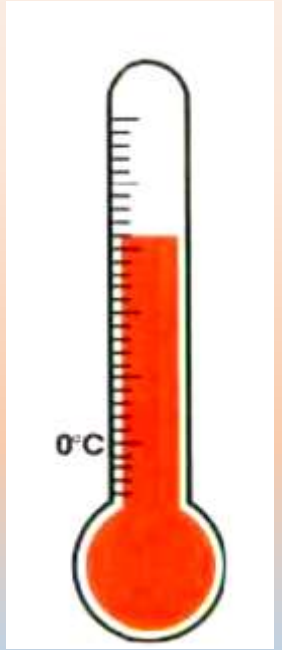
Do you remember?

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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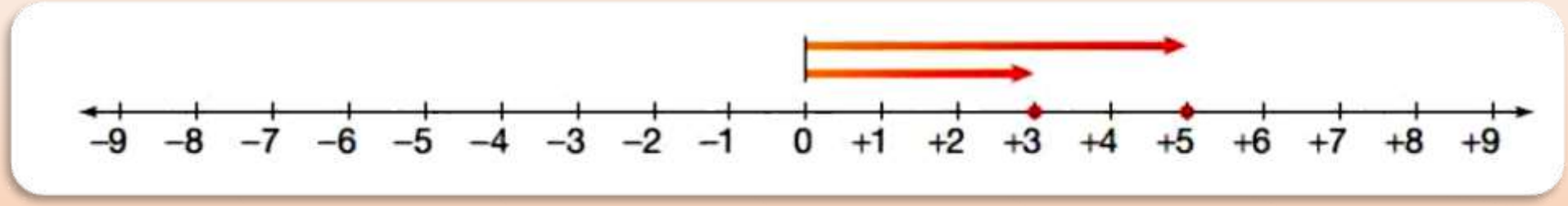
We can use a number line to order integers.

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



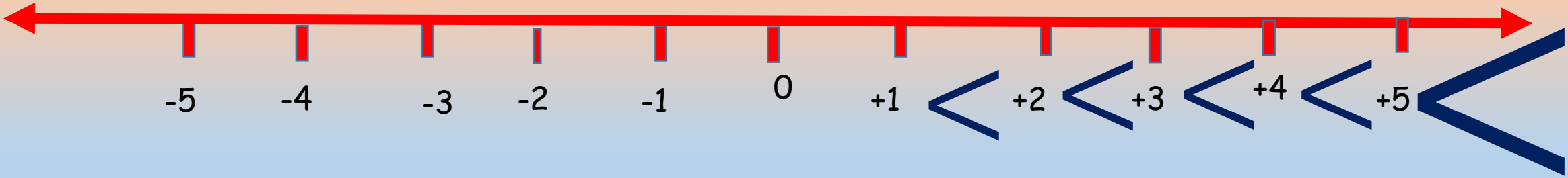
Negative integers

<

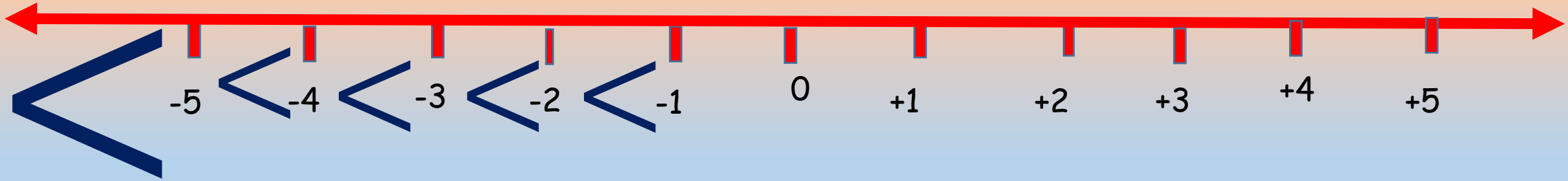
Positive integers

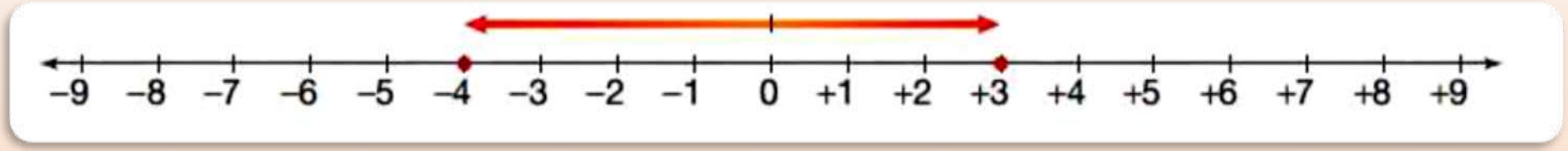
We can use a number line to order integers

+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

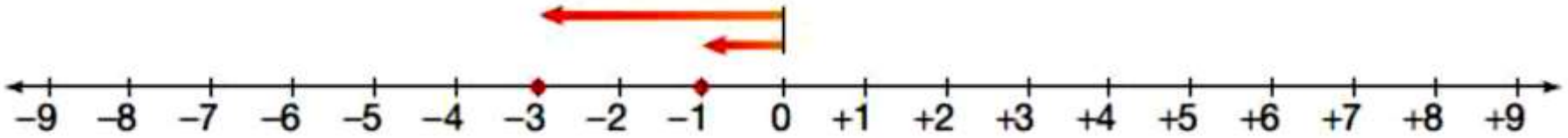




+3 is to the right of −4 on a number line.

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

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

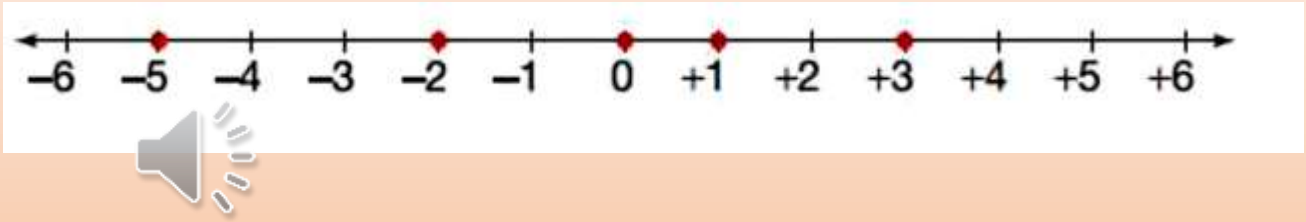


−3 is to the left of −1 on a number line.

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

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

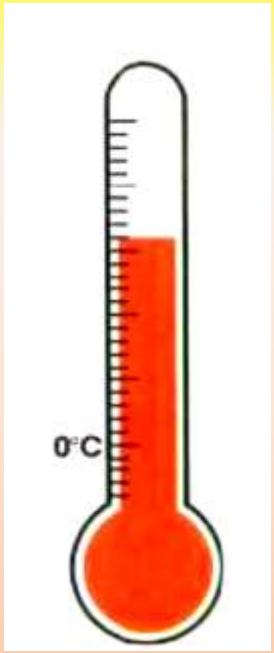
To order the integers 0, +1, −2, +3, and −5, draw a number line from −6 to +6. Mark each integer on the number line.



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

The lable 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:

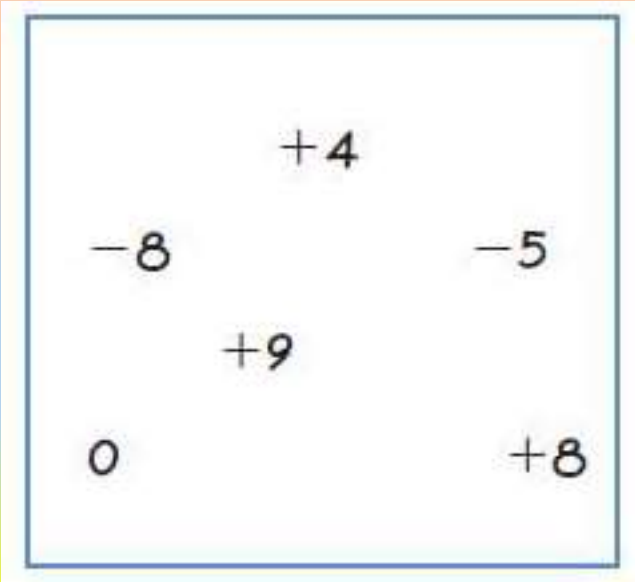
i) greater than 0?

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