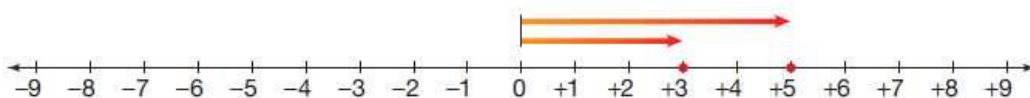


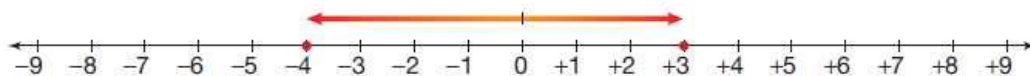
Comparing and Ordering Integers

We can use a number line to order integers.

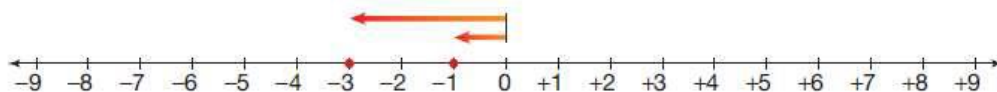
- We use the symbols $>$ and $<$ to show order.
The symbol points to the lesser number.



+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: $+3 < +5$

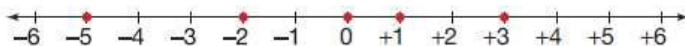


+3 is to the right of -4 on a number line.
+3 is greater than -4, so we write: $+3 > -4$
-4 is less than +3, so we write: $-4 < +3$



-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.

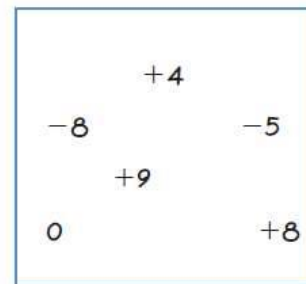
Write each set of temperatures in order, starting with the coldest temperature.

- (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?