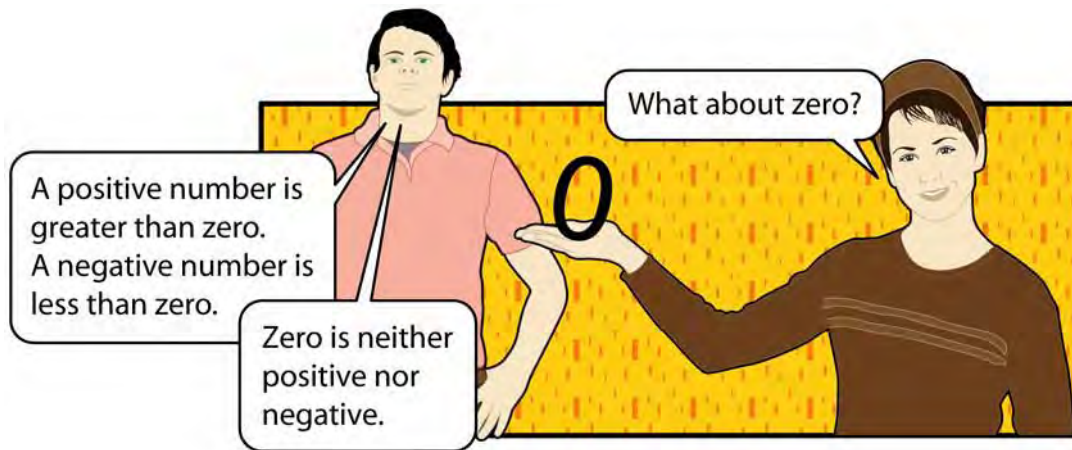
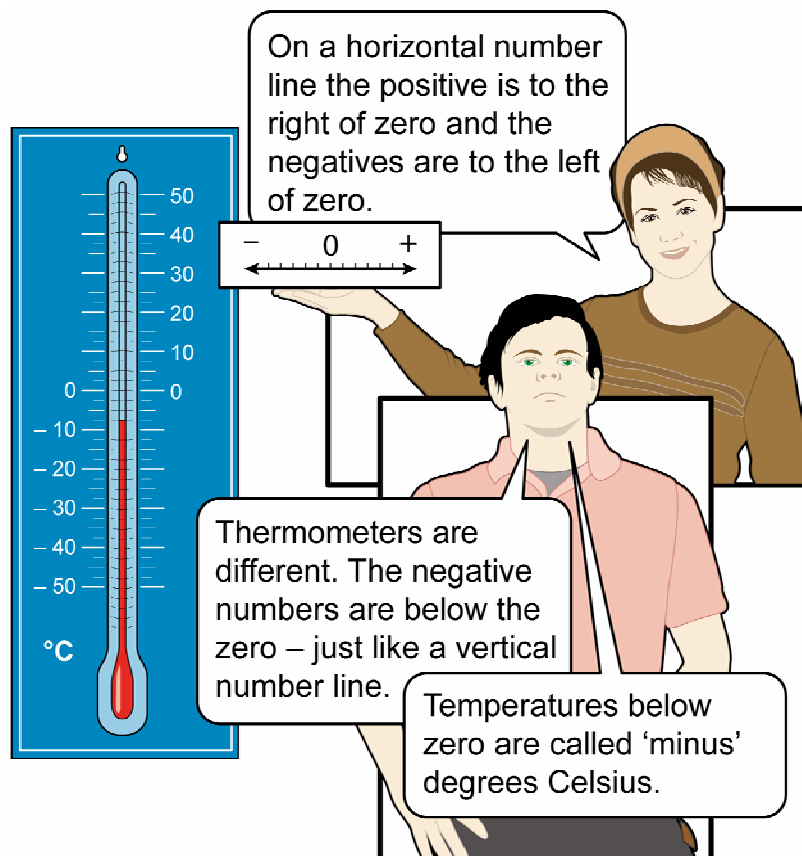
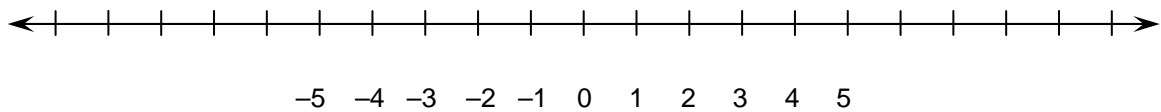


Positive and negative numbers

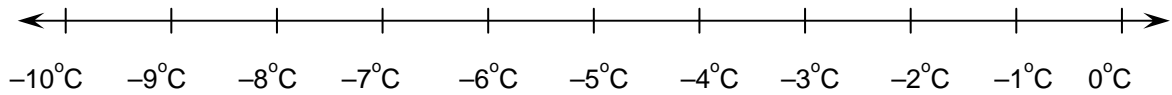


1. A number line is a great way to show negative and positive numbers. Fill in the missing numbers on the number line.



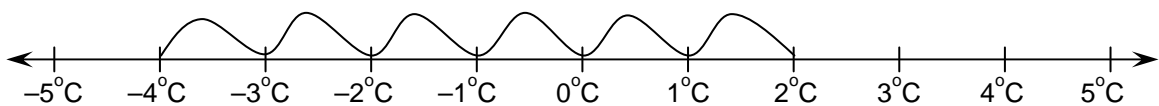
2. On a thermometer, the further a negative number is from zero the colder it is. So -40°C is colder than -30°C .

For each pair use the number line to find the colder temperature. Circle it.



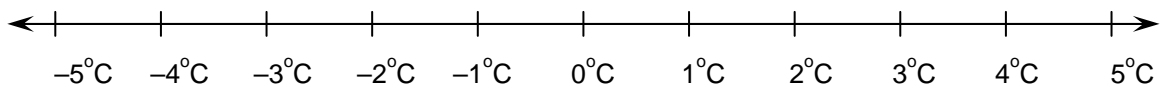
- a) -3°C , -4°C b) -5°C , -2°C c) -8°C , -1°C d) 0°C , -3°C

3. Temperature range is the difference between the minimum and maximum temperature. The range of temperature from -4°C to 2°C is 6°C . It is shown on the number line.



Use the number line below to find the temperature range from minimum to maximum:

- a) 4°C to -2°C , range is _____ c) -5°C to 2°C , range is _____
 b) 4°C to -3°C , range is _____ d) -1°C to -5°C , range is _____

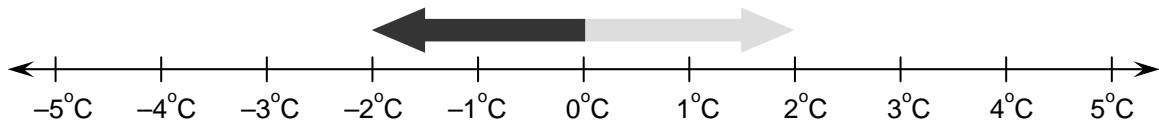


I found the January average temperatures for some European cities. Wow! Moscow is freezing!

City	Country	Max.	Min.
Reykjavik	Iceland	2	-2
Athens	Greece	13	6
Bratislava	Slovakia	27	-3
Vienna	Austria	1	-4
Bucharest	Romania	19	-7
Moscow	Russia	-9	-16

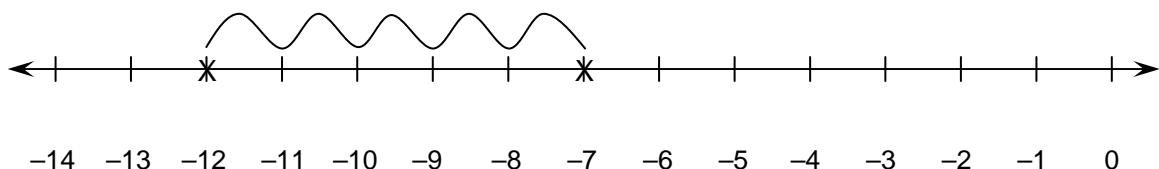
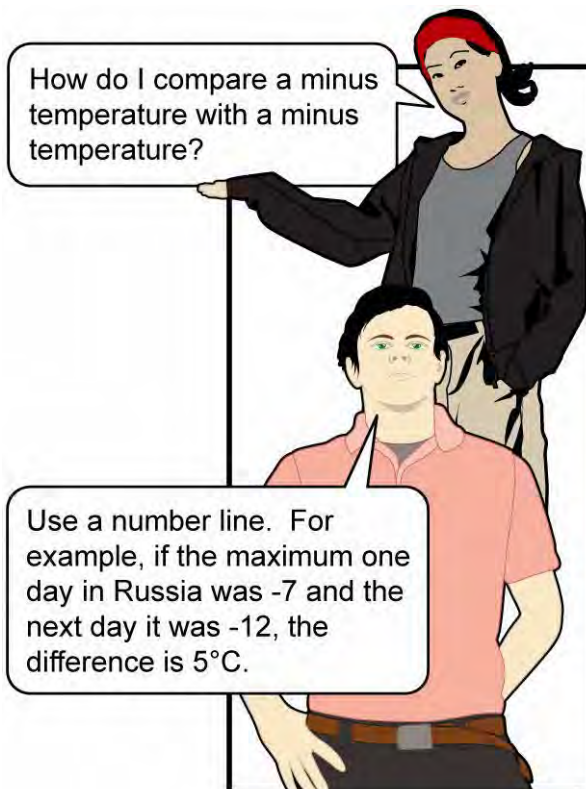
City	Country	Max.	Min.
Copenhagen	Denmark	28	-2
Rome	Italy	11	5
Helsinki	Finland	26	-3
Sofia	Bulgaria	25	-4
Prague	Czech R.	5	-1
Warsaw	Poland	1	-6

The following number line shows the temperature range for Reykjavik. It has a positive maximum of 2°C and a negative minimum of -2°C . To find the range, in this case, work out how far each temperature is from zero. Add the two numbers together.



4. All of the following cities have a positive maximum and a negative minimum. Add the two numbers to find the temperature range. The first one is done for you.

- | | |
|--|--|
| a) Reykjavik 4°C | e) Copenhagen _____ $^{\circ}\text{C}$ |
| b) Vienna _____ $^{\circ}\text{C}$ | f) Sofia _____ $^{\circ}\text{C}$ |
| c) Bratislava _____ $^{\circ}\text{C}$ | g) Warsaw _____ $^{\circ}\text{C}$ |
| d) Bucharest _____ $^{\circ}\text{C}$ | h) Prague _____ $^{\circ}\text{C}$ |



5. Find the difference between the maxima for the first two days in January for these European capitals.

City	Country	Jan 1 st	Jan 2 nd	Difference
Minsk	Belarus	-7°C	-1°C	
Moscow	Russia	-8°C	-14°C	
Kishinev	Moldova	-12°C	-4°C	
Stockholm	Sweden	-11°C	-2°C	

