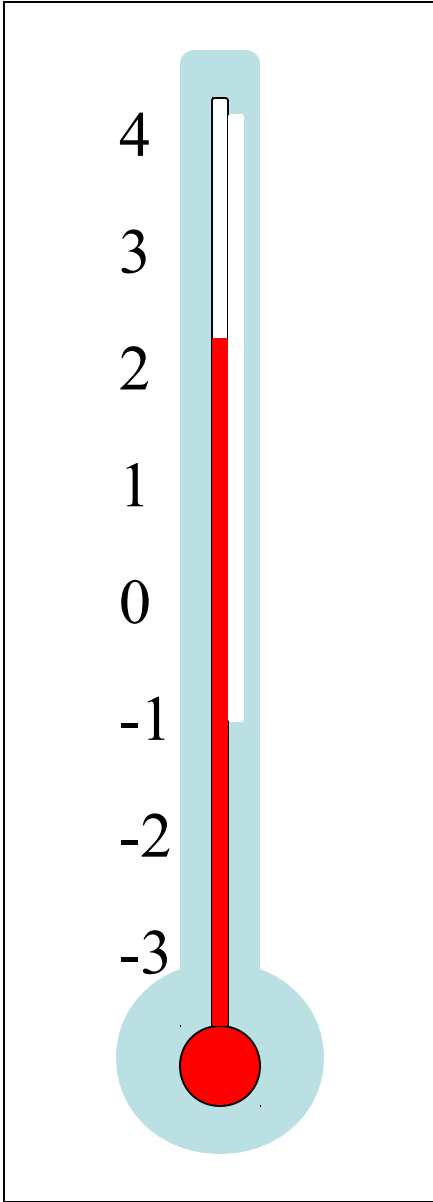


CLASS ROOM SITUATIONS AND RESOURCES

It is 2°C

- The temperature drops by 3 degrees
- What temperature is it now?

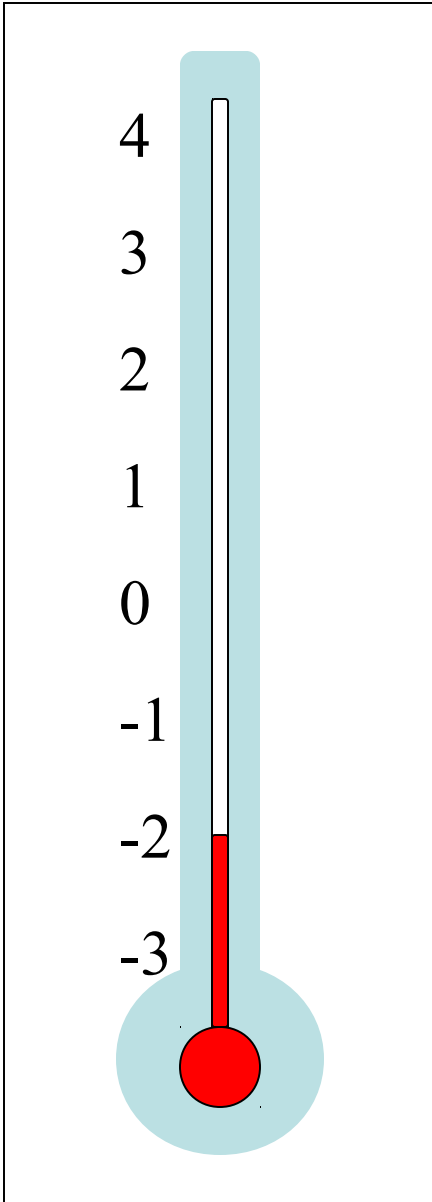
-1°C



It is -2°C

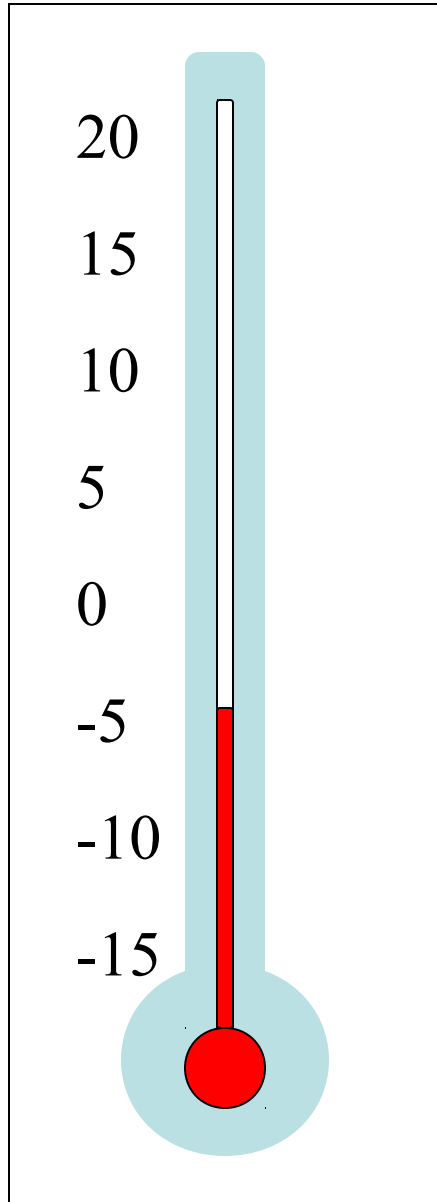
- The temperature rises by 3 degrees
- What temperature is it now?

$+1^{\circ}\text{C}$

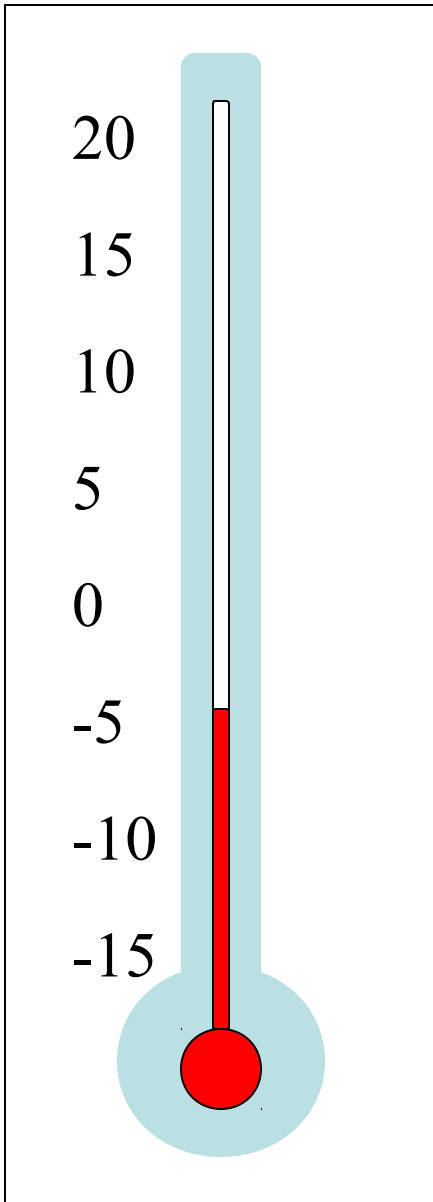


It is 10°C

- The temperature drops by 15°C
- What is the temperature now?



-5°C



It is 15°C

- The temperature drops by 20°C
- What is the temperature now?

-5°C

A NEW BORN BABY'S WEEKLY WEIGHT CHART

WEIGHT OF THE BABY AT THE TIME OF BIRTH 3kg.(or 3000 gm.)

Week	Baby's wt. (in gms)	Loss / Gain	Total Loss/Gain
1 st week	2800		
2 nd week	2750		
3 rd week	2900		
4 th week	3100		
5 th week	3400		
6 th week	3500		

LIFT PROBLEM



1) $3-6=$ first we go +3 floors then we will go down -6 floors down then we reach -3 floors

2) $9-5=$ first we go +9 floors then we will go down -5 floors down then we reach +4 floors

3) $2-7=$ first we go -7 floors then we will go up +2 floors then we reach -5 floors

Comparison of negative integers

The difficulty faced in comparison of negative integers can be overcome to an extent by a number game. A number game was played in the class. Their score was recorded using the '+' or '-' signs for correct answers and incorrect answers respectively. It was recorded as follows:

Teams	Points scored	Total score
A	+ + - + - + +	+5 - 2 = +3
B	- + - - + - +	+3 - 4 = -1
C	+ - + + + + +
D	- - + - + + +

Children could compare by answering the questions such as –

- Which team scored highest?
- Which score is higher -3 or -1?
- When does the score of a team become negative?

Following table is a record of maximum and minimum temperatures (In °C) of 5 cities on a particular day of a year.

New Delhi	23	9
New York	11	2
Beijing	11	-5
Moscow	1	-1
Chicago	5	-3

- Which column is the minimum temperatures and why?
- Minimum temp. of which city is lowest?
- Minimum temp of which city is less than the minimum temp. of Moscow?

(+) (+) Addition of two integers
(-) (-) observation

1. Both the integers are positive so we have to use red colour for both the numbers.

2. There is no negative integers so we will use red or + sign instead of yellow or - sign.

3. If we add both with positive integers the answer will also be a positive integer.

4. $+2 + 5 = +7$

Reflections

- Student's ability to interpret integers in different ways helps them to find their errors themselves.
- By asking them to interpret the expressions or to solve the problems using different strategies with justification, they simultaneously develop mathematical language.
- The language which they developed through this chapter helped them to form algebraic expression.
- Addition and subtraction on the number line helped them to represent algebraic expression on the number which was a visual representation

Student responses

THANK YOU