

# Integers

Q1. Write the opposite of each of the following.

i) Decrease in size

Increase in size

ii) Profit of Rs.10

loss of Rs. 10

iii) Depositing Rs.100 in bank account

Withdrawing RS100 in ba. account

iv) Failure by 5 marks

pass by 5 marks

v) Winning by a margin of 1000 votes

losing by a margin of 1000 votes

Notebook Task:

Q2. Draw number line to solve the following word problems:

i) An elevator is on the 14<sup>th</sup> floor. It goes down 8<sup>th</sup> floor and then up 4<sup>th</sup> floors. What floor is the elevator on now?

ii) Two trains left station on the same time. One traveled 12km towards Shahdra, while the other travelled 9km towards Ali town in opposite direction. Find the total distance between the two trains.

## Notebook Task

Q.2 i) An elevator is on 14<sup>th</sup> floor. It goes down 8<sup>th</sup> floor and then up 4<sup>th</sup> floor. What floor is the elevator on now?

$$\begin{array}{r}
 \text{current floor} = 14^{\text{th}} \\
 \text{goes down} = - 8^{\text{th}} \\
 \hline
 6^{\text{th}} \\
 \text{again up} + 4^{\text{th}} \\
 \hline
 10
 \end{array}$$

The elevator is on 10<sup>th</sup> floor now.

ii) Two trains left station on the same time. One travelled 12 km towards Shahdra, while the other travelled 9 km towards Ali Town in opposite direction. Find the total distance between the two trains.

To find the total distance we simply add the two distances together.

$$12 \text{ km} + 9 \text{ km} = 21 \text{ km}$$

So, The total distance between two trains is 21 km.