

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Integers

Q1. In a competitive exam, positive marks are given for correct answers and negative marks are given for incorrect answers. If Tom scored 25 in test of reasoning, -5 in quantitative aptitude, 15 in language, -10 data handling and 5 in current affairs, what was his total score at the end?

Sol.

Q2. There is a lamp post standing on a bridge which is 20 m above the water level of a river. If a 27 m deep river is flowing under the bridge, then what is the vertical distance between the foot of the lamp post and bottom level of the river is?

Sol.

Q3. A toy car moves 30 cm towards east from point P to the point Q. From Q, it moves 40 cm towards west along the same path. If the distance towards east is represented by a positive integer then, how will you represent the distance travelled towards west? By which integer will you represent her final position from P?

Sol.

Q4. Write two integers which are smaller than  $-3$ , but their difference is greater than  $-3$ .

Sol.

## Answers

### Integers

Q1. In a competitive exam, positive marks are given for correct answers and negative marks are given for incorrect answers. If Tom scored 25 in test of reasoning, -5 in quantitative aptitude, 15 in language, -10 data handling and 5 in current affairs, what was his total score at the end?

Sol. Total score of Tom at the end will be the sum of these scores.

$$\begin{aligned}\text{So, Tom's total score at the end} &= 25 + (-5) + 15 + (-10) + 5 \\ &= 30\end{aligned}$$

Q2. There is a lamp post standing on a bridge which is 20 m above the water level of a river. If a 27 m deep river is flowing under the bridge, then what is the vertical distance between the foot of the lamp post and bottom level of the river is?

Sol. Vertical distance = 20 m + 27 m = 47m

Q3. A toy car moves 30 cm towards east from point P to the point Q. From Q, it moves 40 cm towards west along the same path. If the distance towards east is represented by a positive integer then, how will you represent the distance travelled towards west? By which integer will you represent her final position from P?

Sol. Since, the distance towards east is represented by a positive integer; the distance travelled towards west will be represented by a positive integer.

$$\text{Distance travelled in east direction} = 30 \text{ cm}$$

$$\text{Distance travelled in west direction} = 40 \text{ cm}$$

$$\text{Distance travelled from point P} = 30 + (-40) = -10 \text{ cm}$$

Q4. Write two integers which are smaller than -3, but their difference is greater than -3.

Sol. - 5 and - 4 are smaller than - 3 but their difference is  $(-4) - (-5) = 1$  which is greater than - 3. (Answer may vary)