



Exercise 4C

Q7

Answer :

No, they are not equal.

$$\begin{aligned}34 - (-72) \\&= 34 + 72 \\&= 106\end{aligned}$$

$$\begin{aligned}(-72) - 34 \\&= -72 - 34 \\&= -106\end{aligned}$$

Since 106 is not equal to -106 , the two expressions are not equal.

Q8

Answer :

Let the other integer be x .

According to question, we have:

$$x + 170 = -13$$

$$\Rightarrow x = -13 - 170$$

$$\Rightarrow x = -183$$

Thus, the other integer is -183 .

Q9

Answer :

Let the other integer be x .

According to question, we have:

$$x + (-47) = 65$$

$$\Rightarrow x - 47 = 65$$

$$\Rightarrow x = 65 + 47$$

$$\Rightarrow x = 112$$

Thus, the other integer is 112 .

Q10

Answer :

(i) True

An integer added to an integer gives an integer.

(ii) True

An integer subtracted from an integer gives an integer.

iii) False

$$-8 - (-7)$$

$$= -8 + 7$$

$$= -1$$

Since 14 is greater than 1 , -1 is greater than -14 .

iv) True

$$-5 - 2 = -7$$

Since 8 is greater than 7 , -7 is greater than -8 .

$$-7 > -8$$

v) False

L.H.S.

$$(-7) - 3 = -10$$

R.H.S.

$$(-3) - (-7)$$

$$= (-3) + 7$$

$$= 4$$

$\therefore \text{L.H.S.} \neq \text{R.H.S.}$

Q11

Answer :

Let us consider the height above the sea level as positive and that below the sea level as negative.

\therefore Height of point A from sea level = 5700 m

Depth of point B from sea level = -39600 m

Vertical distance between A and B = Distance of point A from sea level - Distance of point B from sea level

$$= 5700 - (-39600)$$

$$= 45300 \text{ m}$$

Q12

Answer :

Initial temperature of Srinagar at 6 p.m. = 1°C

Final temperature of Srinagar at midnight = -4°C

Change in temperature = Final temperature - Initial temperature

$$= (-4 - 1)^{\circ}\text{C}$$

$$= -5^{\circ}\text{C}$$

So, the temperature has changed by -5°C .

The negative sign indicates that the temperature has fallen.

So, the temperature has fallen by 5°C .

***** END *****