

Ch-3: (Integer)
Ex-3(A)

(1)

- i) Loss of ₹ 90.
- ii) 70m below sea-level.
- iii) 200 m due East.
- iv) 25% decrease.
- v) 10°C above freezing point
- vi) 30 m to the right.

— x —

(2)

- i) A decrease of -8.
- ii) Gain of - ₹ 300.
- iii) Saving - ₹ 725.
- iv) - 53 m above sea level.

(H)

(3)

- 3 and 10.
- i) 4, 5, 6, 7, 8, 9.
- ii) - 3 and 6.
- 2, - 1, 0, 1, 2, 3, 4, 5.

(H)

— x —

(4) $-5, -4, -3, -2, -1, 0, 7$

— x —

(5)

i) $-5 < 3$ ii) $0 \geq -4$

iii) $-8 \geq -14$ iv) $-23 < -16$

v) $15 \geq -15$ vi) $-1 \geq -12$

vii) $9 \geq (-1)$ viii) $(-9) < 1$

ix) $(-9) < (-1)$

— x —

(6)

i) $|-17| - |8|$ ii) $|-14| + |5|$

~~$= 17 - 8$~~ $= 14 + 5 = 19$ Ans:

~~$= 9$~~ Ans:

iii) $|-9| + |-6|$ iv) $|-23| - |-12|$

$= 9 + 6$ $= 23 - 12$

$= 15$ Ans: $= 11$ Ans:

$$\checkmark \Rightarrow | -8 | + | -6 | - | -10 |$$

$$= 8 + 6 - 10$$

$$= 14 - 10 = \underline{4 \text{ Ans:}}$$

$$\checkmark \Rightarrow | -6 | + | -1 | - | -5 |$$

$$= 6 + 1 - 5$$

$$= 7 - 5 = \underline{2 \text{ Ans:}}$$

— x —

(7).

i) $14, -7, -13, 0, 6, -2, 30$

→ $-13 < -7 < -2 < 0 < 6 < 14 < 30$

ii) $-18, 14, -25, 32, -5, 2$

→ $-25 < -18 < -5 < 2 < 14 < 32$

iv) $37, -28, -15, 7, 23, -19, -6$

→ $-28 < -19 < -15 < -6 < 7 < 23 < 37$

Ex-3(B).

(1)

i)

$$16 + 21$$

$$= \underline{37 \text{ Ans:}}$$

ii) $(-16) + 21$

$$= -16 + 21$$

$$= \underline{+5 \text{ Ans:}}$$

iii) $16 + (-21)$

$$= 16 - 21$$

$$= \underline{-5 \text{ Ans:}}$$

iv)

$$(-25) + (-18)$$

$$= -25 - 18$$

$$= \underline{-43 \text{ Ans:}}$$

vii) $(-38) + 45$

$$= -38 + 45$$

$$= \underline{+7 \text{ Ans:}}$$

ix)

$$(-150) + (-15)$$

$$= -150 - 15$$

$$= \underline{-165 \text{ Ans:}}$$

H/W:

v, vi, viii

$$\begin{array}{r} 410 \\ 150 \\ \hline 15 \\ 175 \end{array}$$

(5)

(iii)

$$70 - (-8) \quad (v) \quad (-36) - (64)$$

$$= 70 + 8$$

$$= -36 - 64$$

$$= \underline{+78 \text{ Ans:}}$$

$$= \underline{-100 \text{ Ans:}}$$

(vi)

$$0 - (-20) = 0 + 20$$

$$= \underline{+20 \text{ Ans:}}$$

 x

(6)

(ii)

75 from -75.



$$-75 - (75)$$

$$= -75 - 75 = -150$$

(iii) -630 from -70

$$\Rightarrow -70 - (-630)$$

$$= -70 + 630$$

$$= \underline{+560 \text{ Ans}}$$

(7)

(iii)

$$(-14) + (-20) = -34$$

(v)

$$(-30) - (-16) = -14$$

(vi)

$$(-23) - (-25) = 2$$

12

The sum of two integers is = -23.
If one " them is = 12.

$$\therefore \text{The other no. is} = -23 - 12 \\ = \underline{-35 \text{ Ans}}$$

14

The temperature at 8 p.m. is = 2°C.

" " " mid-night is = -3°C.

$$\therefore \text{Fall} = +2^\circ\text{C} - (-3^\circ\text{C}) \\ = +2^\circ\text{C} + 3^\circ\text{C} \\ = \underline{+5^\circ\text{C Ans}}$$

15

A car travelled east of Delhi is = 100 km.

West of Delhi = 130 km.

$$\therefore \text{Total distance travelled from Delhi was the} \\ \text{car finally} = \cancel{+100} - 130 \text{ km.} \\ = +100 - 130 \text{ km.} \\ = \underline{-30 \text{ km.}}$$

Ans: 30 km to the west of Delhi.