

Exercise - 6.3

① 43 ਕਰੋ :-

$$\begin{aligned} \text{a)} \quad & 35 - (20) \\ &= 35 - 20 \\ &= 15 \end{aligned}$$

$$\begin{aligned} \text{b)} \quad & 72 - (90) \\ &= 72 - 90 \\ &= -18 \end{aligned}$$

$$\begin{aligned} \text{c)} \quad & (-15) - (-18) \\ &= (-15) + (18) \\ &= -15 + 18 \\ &= 3 \end{aligned}$$

$$\begin{aligned} \text{d)} \quad & (-20) - (13) \\ &= -20 - 13 \\ &= -33 \end{aligned}$$

$$\begin{aligned} \text{e)} \quad & 23 - (-12) \\ &= 23 + 12 \\ &= 35 \end{aligned}$$

$$\begin{aligned} \text{f)} \quad & (-32) - (-40) \\ &= -32 + 40 \\ &= 8 \end{aligned}$$

② $>$, $<$ ਜਾਂ $=$ ਚਿੰਨ੍ਹਾਂ ਦੀ ਵਰਤੋਂ ਕਰਕੇ ਹੇਠਾਂ ਦਿੱਤੀ ਸਮੀਕਰਨਾਂ ਨੂੰ ਸਹੀ ਅਸਲੀ ਭਰੋ।

$$\text{a)} \quad (-3) + (-6) \quad \underline{\hspace{1cm}} \quad (-3) - (-6)$$

ਖੱਬਾ ਪਾਸਾ

$$\begin{aligned} & (-3) + (-6) \\ &= -3 - 6 \\ &= -9 \end{aligned}$$

ਸੱਜਾ ਪਾਸਾ

$$\begin{aligned} & (-3) - (-6) \\ &= -3 + 6 \\ &= 3 \end{aligned}$$

$$-9 < 3$$

$$\therefore (-3) + (-6) \quad \boxed{<} \quad (-3) - (-6)$$

$$\text{b)} \quad (-21) - (-10) \quad \underline{\hspace{1cm}} \quad (-31) + (-11)$$

ਖੱਬਾ ਪਾਸਾ

$$\begin{aligned} & (-21) - (-10) \\ &= -21 + 10 \\ &= -11 \end{aligned}$$

ਸੱਜਾ ਪਾਸਾ

$$\begin{aligned} & (-31) + (-11) \\ &= -31 - 11 \\ &= -42 \end{aligned}$$

$$\therefore (-21) - (-10) \quad \boxed{>} \quad (-31) + (-11)$$

$$\begin{array}{rcl}
 \text{(c)} & 45 - (-11) & \text{---} \quad 57 + (-4) \\
 & \text{अँघा यात्रा} & \text{मँला यात्रा} \\
 & 45 - (-11) & 57 + (-4) \\
 = & 45 + 11 & = 57 - 4 \\
 = & 56 & = 53
 \end{array}$$

$$56 > 53$$

$$\therefore 45 - (-11) > 57 + (-4)$$

$$\text{ख)} \quad (-25) - (-42) \quad \text{---} \quad (-42) - (-25)$$

$$\begin{array}{rcl}
 & \text{मँला यात्रा} & \text{अँघा यात्रा} \\
 & (-25) - (-42) & -42 - (-25) \\
 = & -25 + 42 & = -42 + 25 \\
 = & 17 & = -17
 \end{array}$$

$$17 > -17$$

$$\therefore (-25) - (-42) > (-42) - (-25)$$

3. खाली मथान भर:-

$$\text{a)} \quad (-8) + \underline{8} = 0$$

$$\text{b)} \quad 13 + \underline{(-13)} = 0$$

$$\text{c)} \quad 12 + \underline{(-12)} = 0$$

$$\text{d)} \quad (-4) + \underline{(-8)} = -12$$

$$\text{e)} \quad \underline{15} - 15 = 0$$

4. यडा कर:-

$$\text{क)} \quad (-7) - 8 - (-25)$$

$$\{ (-7) - 8 \} + 25$$

$$= \{ -7 - 8 \} + 25$$

$$b) (-13) + 32 - 8 - 1$$
$$= \{ -13 - 8 - 1 \} + 32$$

$$= \{ -22 \} + 32 = -22 + 32$$
$$= 10$$

$$c) (-7) + (-8) + (-90)$$

$$= \{ (-7) + (-8) \} - 90$$

$$= \{ -7 - 8 \} - 90$$

$$= \{ -15 \} - 90$$

$$= -15 - 90 = -105$$

$$d) 50 - (-40) - (-2)$$

$$= \{ 50 - (-40) \} - (-2)$$

$$= \{ 50 + 40 \} + 2$$

$$= 90 + 2$$

$$= 92$$