

Access NCERT Solutions for Class 6 Chapter 6: Integers Exercise 6.3

1. Find

(a) $35 - (20)$

(b) $72 - (90)$

(c) $(-15) - (-18)$

(d) $(-20) - (13)$

(e) $23 - (-12)$

(f) $(-32) - (-40)$

Solutions:

(a) $35 - (20)$

$$= 35 - 20$$

$$= 15$$

(b) $72 - (90)$

$$= 72 - 90$$

$$= -18$$

(c) $(-15) - (-18)$

$$= -15 + 18$$

$$= 3$$

(d) $(-20) - (13)$

$$= -20 - 13$$

$$= -33$$

(e) $23 - (-12)$

$$= 23 + 12$$

$$= 35$$

(f) $(-32) - (-40)$

$$= -32 + 40$$

$$= 8$$

2. Fill in the blanks with $>$, $<$ or $=$ sign.

(a) $(-3) + (-6)$ _____ $(-3) - (-6)$

(b) $(-21) - (-10)$ _____ $(-31) + (-11)$

(c) $45 - (-11)$ _____ $57 + (-4)$

(d) $(-25) - (-42)$ _____ $(-42) - (-25)$

Solutions:

(a) $(-3) + (-6) = -9$

$(-3) - (-6) = -3 + 6$

$= 3$

$-9 < 3$

Therefore $(-3) + (-6) > (-3) - (-6)$

(b) $-21 - (-10) = -21 + 10 = -11$

$-31 + (-11) = -42$

$-11 > -42$

Therefore $(-21) - (-10) > (-31) + (-11)$

(c) $45 - (-11) \quad 45 + 11 = 56$

$57 + (-4) = 57 - 4 = 53$

$56 > 53$

Therefore $45 - (-11) > 57 + (-4)$

(d) $(-25) - (-42) = -25 + 42 = 17$

$-42 - (-25) = -42 + 25 = -17$

$17 > -17$

Therefore $(-25) - (-42) > (-42) - (-25)$

3. Fill in the blanks.

(a) $(-8) + \underline{\hspace{2cm}} = 0$

(b) $13 + \underline{\hspace{2cm}} = 0$

(c) $12 + (-12) = \underline{\hspace{2cm}}$

(d) $(-4) + \underline{\hspace{2cm}} = -12$

(e) $\underline{\hspace{2cm}} - 15 = -10$

Solutions:

(a) $(-8) + 8 = 0$

(b) $13 + (-13) = 0$

(c) $12 + (-12) = 0$

(d) $(-4) + (-8) = -12$

(e) $5 - 15 = -10$

4. Find

(a) $(-7) - 8 - (-25)$

(b) $(-13) + 32 - 8 - 1$

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

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

Solutions:

$$\text{(a) } (-7) - 8 - (-25) = -7 - 8 + 25$$

$$= -15 + 25$$

$$= 10$$

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

$$= 32 - 22$$

$$= 10$$

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

$$= -105$$

$$\text{(d) } 50 - (-40) - (-2) = 50 + 40 + 2$$

$$= 92$$