1.

(a)The opposite of increase in weight is decrease in weight

(b) The opposite of 30 km north is 30 km south

(c) The opposite of 80 m east is 80 m west

(d) The opposite of loss of Tk. 700 is gain of Tk. 700

(e) The opposite of 100 m above sea level is 100 m below sea level

2. **(a)**

+ 2000

m

(b) −

800 m

(c) +

200

(d) − 700

3. **(a)** -6, -5, -4, -3, -2, -1 are the

integers between 0 and -7

(b) -3, -2, -1, 0, 1, 2, 3 are the

integers between -4 and 4

(c) -14, -13, -12, -11, -10, -9 are the integers between -8 and -15

(d) -29, -28, -27, -26, -25, -24 are the integers between -30 and -23

4. **(a)** -19, -18, -17, -16 are the

integers greater than -20

(b) -11, -12, -13, -14 are the

integers less than -10

5. **(a)** True as (-8 > -10)

(b) False. (-50 is greater than -100). Hence, -100 lies to the left of -50 on the number line

(c) False. -1 is the greater

negative integer.

(d) False. -26 is smaller than

-25

6.Solutions:

(a) 9 lies to the right on the number line $(9 > 2)$

(b) -3 lies to the right on the number

line $(-3 > -8)$

(c) 0 lies to the right on the number

line $(0 > -1)$

(d) 10 lies to the right on the number

line $(10 > -11)$

(e) 6 lies to the right on the number

line $(6 > -6)$

(f) 1 lies to the right on the number line $(1 > -100)$