

## Access NCERT Solutions for Class 6 Chapter 6: Integers Exercise 6.2

1. Using the number line write the integer which is:

(a) 3 more than 5

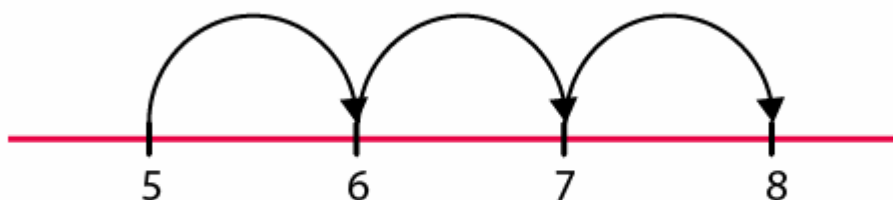
(b) 5 more than  $-5$

(c) 6 less than 2

(d) 3 less than  $-2$

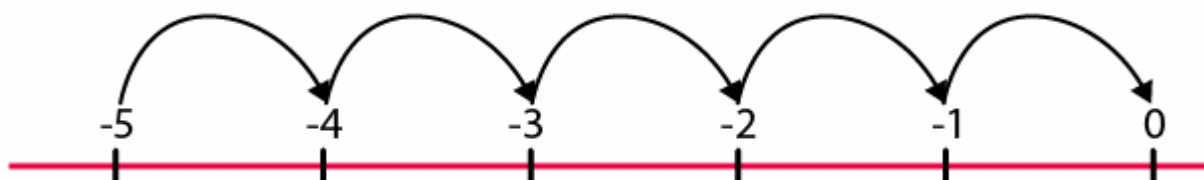
**Solutions:**

(a)



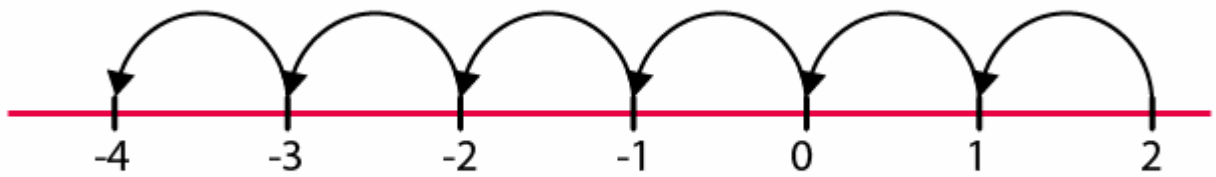
Hence, 8

(b)



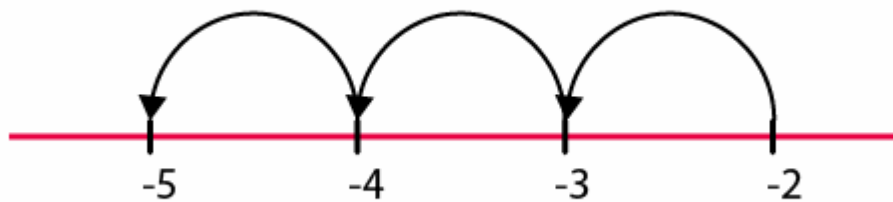
Hence, 0

(c)



Hence, -4

(d)



Hence, -5

**2. Use number line and add the following integers:**

(a)  $9 + (-6)$

(b)  $5 + (-11)$

(c)  $(-1) + (-7)$

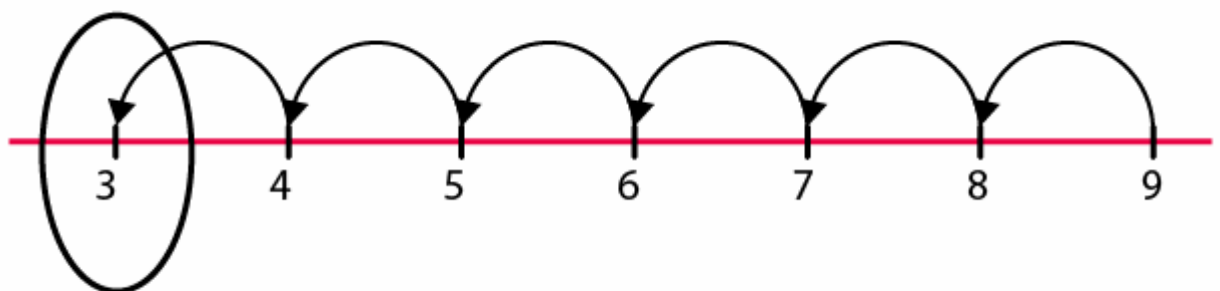
(d)  $(-5) + 10$

(e)  $(-1) + (-2) + (-3)$

(f)  $(-2) + 8 + (-4)$

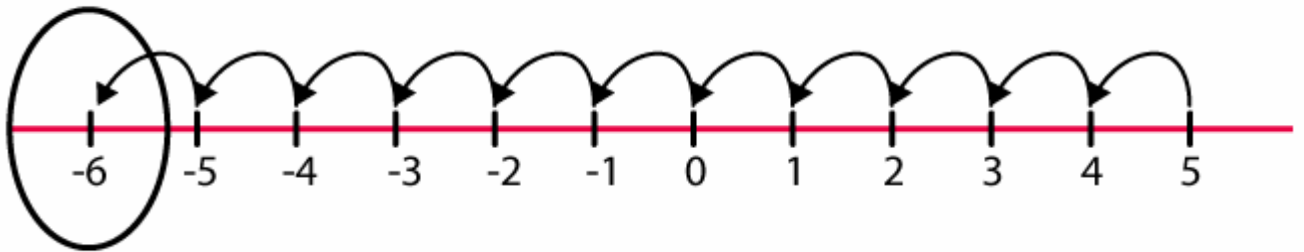
**Solutions:**

(a)



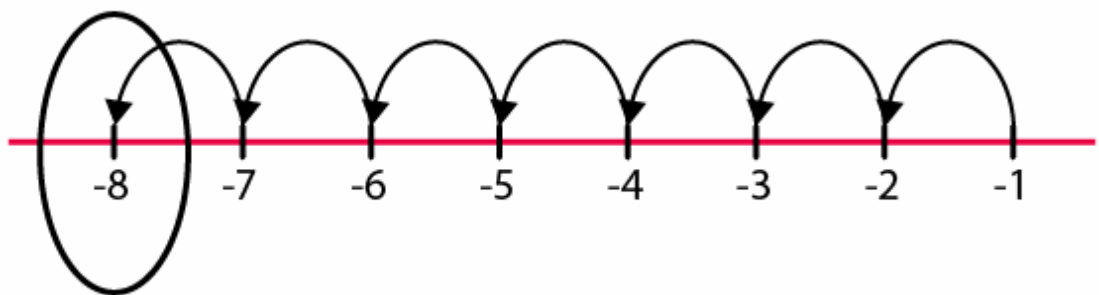
Hence, 3

(b)



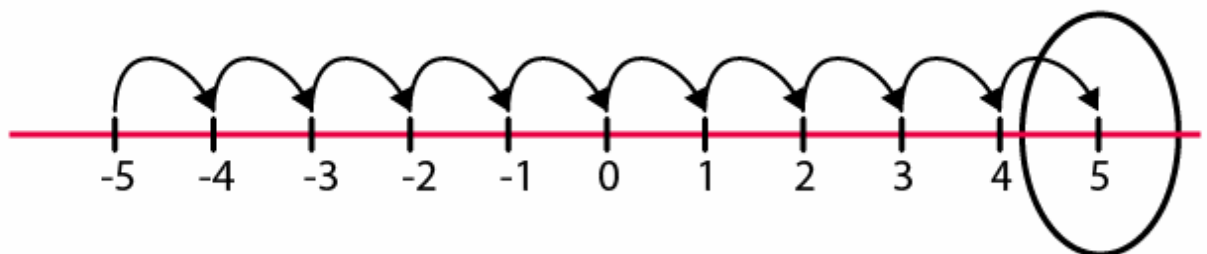
Hence, -6

(c)



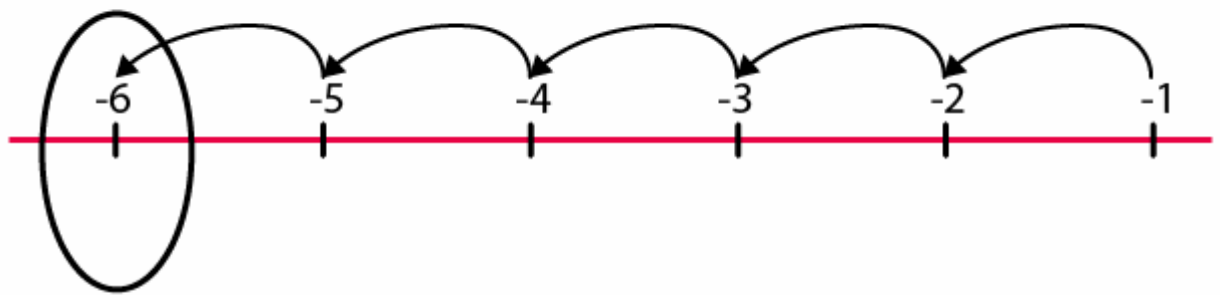
Hence, -8

(d)



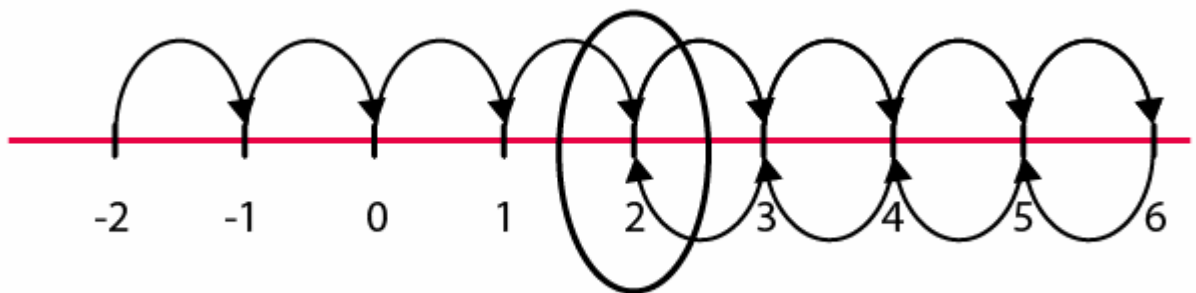
Hence, 5

(e)



Hence, -6

(f)



Hence, 2

**3. Add without using number line:**

(a)  $11 + (-7)$

(b)  $(-13) + (+18)$

(c)  $(-10) + (+19)$

(d)  $(-250) + (+150)$

(e)  $(-380) + (-270)$

(f)  $(-217) + (-100)$

**Solutions:**

(a)  $11 + (-7) = 4$

(b)  $(-13) + (+18) = 5$

(c)  $(-10) + (+19) = 9$

(d)  $(-250) + (+150) = -100$

(e)  $(-380) + (-270) = -650$

(f)  $(-217) + (-100) = -317$

**4. Find the sum of:**

(a) 137 and  $-354$

**(b) – 52 and 52**

**(c) – 312, 39 and 192**

**(d) – 50, – 200 and 300**

**Solutions:**

**(a) 137 and -354**

$$(137) + (-354) = (317) + (-137) + (-217)$$

$$= 0 + (-217) [(317) + (-317) = 0]$$

$$= (-217)$$

$$= -217$$

**(b) -52 and 52**

$$(-52) + (+52) = 0 [(-a) + (+a) = 0]$$

**(c) -312, 39 and 192**

$$(-312) + (+39) + (+192) = (-231) + (-81) + (+39) + (+192)$$

$$= (-231) + (-81) + (+231)$$

$$= (-231) + (+231) + (-81)$$

$$= 0 + (-81) [(-a) + (+a) = 0]$$

$$= -81$$

**(d) -50, -200 and 300**

$$(-50) + (-200) + (+300) = (-50) + (-200) + (+200) + (+100)$$

$$= (-50) + 0 + (+100) [(-a) + (+a) = 0]$$

$$= (-50) + (+100)$$

$$= (-50) + (+50) + (+50)$$

$$= 0 + (+50) [(-a) + (+a) = 0]$$

$$= 50$$

**5. Find the sum:**

**(a) (–7) + (–9) + 4 + 16**

**(b) (37) + (–2) + (–65) + (–8)**

**Solutions:**

**(a) (-7) + (-9) + 4 + 16**

$$= (-7) + (-9) + 4 + (+7) + (+9)$$

$$= (-7) + (+7) + (-9) + (+9) + 4$$

$$= 0 + 0 + 4 [(-a) + (+a) = 0]$$

$$= 4$$

**(b) (37) + (-2) + (-65) + (-8)**

$$= (+37) + (-75)$$

$$\begin{aligned} &= (+37) + (-37) + (-38) \\ &= 0 + (-38) [(-a) + (+a) = 0] \\ &= -38 \end{aligned}$$