



# MATHS

## BOOKS - SWAN PUBLICATION

### INTEGERS

#### Exercise 4 1

1. Write two examples from day to day life in which we can use positive and negative integers.

a.Nilesh has Rs. 5000 in his bank account. In one month he depositide Rs. 2500 is his account and in

the same month he withdraw Rs. 800 from his account. What amount is left in his account at the end of the month.

b. Raman deals with readymade garments. One day he earned a profit of Rs. 1200 and on the next day he has a loss of Rs. 300. Find his net earning in these two days.



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**2. Write the opposite of the following :**

a. A profit of Rs. 500



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3. Write the opposite of the following :

A withdrawal of Rs. 70 from bank account



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4. Write the opposite of the following :

A deposit of Rs. 1000



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5. Write opposites of the following,

326 B.C





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6. Write the opposite of the following :

500 m below Sea level



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7. Write the opposite of the following :

$25^{\circ}$  above  $0^{\circ}C$



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8. Represent the situations mentioned in Q2 in integers.



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9. Represent the following situations in Integers.

a. A deposit of Rs. 500

b. An Aeroplane is flying at a height two thousand metre above the sea level.

c. A withdrawal of Rs. 700 from Bank Account.

d. A diver to a depth of 6 feet below ground level.



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**10.** Represent the following numbers on number line.

-5



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**11.** Represent the following numbers on number line.

+6



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**12.** Represent the following numbers on number line.

0



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**13.** Represent the following numbers on number line.

+1



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**14.** Represent the following numbers on number line.

-9



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**15.** Represent the following numbers on number line.

-4



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**16.** Represent the following numbers on number line.

+8



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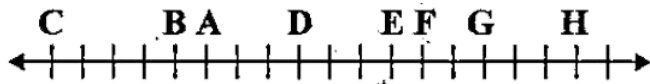
**17.** Represent the following numbers on number line.

+3



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**18.** Integers are represented on a horizontal number line as shown where A represents -2. With reference to the number line, answer the following questions:



- Which point represents -3?
- Locate the point which represents the opposite of B and name it P.
- Write integers for the points C and E.
- Which point marked on the number line has the least value?



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**19.** In each of the following pairs, which number is to the right of the other on the number line?

2, 9



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**20.** In each of the following pairs, which number is to the right of other on the number line?

$-3$ ,  $-8$



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**21.** In each of the following pairs, which number is to the right of other on the number line?

0,  $-5$



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**22.** In each of the following pairs, which number is to the right of other on the number line?

$-3$ ,  $-8$



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**23.** In each of the following pairs, which number is to the right of other on the number line?

$-9, 9$



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**24.** In each of the following pairs, which number is to the right of other on the number line?

$2, -200$



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**25.** Write all the integers between the given pairs  
(write them in increasing order).

0 and -6



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**26.** Write all the integers between the given pairs  
(write them in increasing order).

-6 and +6



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**27.** Write all the integers between the given pairs  
(write them in the increasing order.)

$-8$  and  $-15$



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**28.** Write all the integers between the given pairs  
(write them in increasing order).

$-6$  and  $+6$



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**29.** Write five negative integers greater than -15



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**30.** Write five integers smaller than -2



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**31.** Write five integers greater than 0.



**Watch Video Solution**

**32.** Write five integers smaller than 0.



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**33.** Encircle the greater integer in each given pair.

$-5, -7$



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**34.** Encircle the greater integer in each given pair.

$0, -3$



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**35.** Encircle the greater integer in each given pair.

5, 7



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**36.** Encircle the greater integer in each given pair.

$-9$ , 0



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**37.** Encircle the greater integer in each given pair.

$-9$ ,  $-11$



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**38.** Encircle the greater integer in each given pair.

$-4, 4$



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**39.** Encircle the greater integer in each given pair.

$-10, -100$



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**40.** Encircle the greater integer in each given pair.

10, 100



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**41.** Arrange the following integers in ascending order:

0,  $-7$ ,  $-9$ , 5,  $-3$ , 2,  $-4$



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**42.** Arrange the following integers in ascending order:

8, - 3, 7, 0, - 9, - 6



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**43.** Arrange the following integers in ascending order:

0, - 7, - 9, 5, - 3, 2, - 4



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**44.** Arrange the following integers in descending order:

4, 8,  $-3$ ,  $-2$ , 5, 0



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## Exercise 4 2

**1.** Using number line write the integer which is :  
5 less than -1



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

5 more than -5



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

3 more than 5



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

3 less than -2.



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5. Using number line add the following integers:

$$9 + (-3)$$



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6. Using number line add the following integers:

$$5 + (-11)$$



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7. Using number line add the following integers:

$$(-1) + (-4)$$



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8. Using number line add the following integers:

$$(-5) + 12$$



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9. Using number line add the following integers:

$$(-1) + (-2) + (-4)$$



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**10.** Using number line add the following integers:

$$(-2) + 4 + (-5)$$

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**11.** Without using number line add following integers:

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

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

$$18 + 13$$



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

$$18 + (-13)$$



**Watch Video Solution**

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

$$(-18) + 13$$



**Watch Video Solution**



**Watch Video Solution**

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

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



**Watch Video Solution**

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

$$180 + (-200)$$



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

$$777 + (-67)$$



**Watch Video Solution**

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

$$1262 + (-366) + (-962)$$



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

$$30 + (-27) + 21 + (-19) + (-3) + (11) + (-9)$$



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

$$(-7) + (-9) + 4 + 16$$



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

$$37 + (-2) + (-65) + (-8)$$



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**22.** Write the successor and predecessor of the following:  $-15$



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**23.** Write the successor and predecessor of the following:  $27$



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**24.** Write the successor and predecessor of the following:  $-79$



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25. Write the successor and predecessor of the following: 0



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26. Write the successor and predecessor of the following: 29



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27. Write the successor and predecessor of the following:  $-15$



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28. Write the successor and predecessor of the following:  $-21$



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29. Write the successor and predecessor of the following:  $99$



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**30.** Write the successor and predecessor of the following:  $-1$



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**31.** Write the successor and predecessor of the following:  $-13$



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32. Complete the following addition table:

+	-3	-4	-2	+1	+2	+3
-2						
-3						
0						
+1						
+2						



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### Exercise 4 3

1. Fill in suitable integer in box:

$$2 + \square = 0$$



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**2. Fill in suitable integer in box:**

$$\square + 11 = 0$$



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**3. Fill in suitable integer in box:**

$$-5 + \square = 0$$



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4. Fill in suitable integer in box:

$$\square + (-9) = 0$$



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5. Fill in suitable integer in box:

$$3 + \square = 0$$



**Watch Video Solution**

6. Fill in suitable integer in box:

$$\square + 0 = 0$$





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7. Subtract using number line:

5 from -7



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8. Subtract using number line:

-3 from -6



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9. Subtract using number line:

-2 from 8



**Watch Video Solution**

10. Subtract using number line:

3 from 9



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11. Subtract without using number line:

-6 from 16



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**12.** Subtract without using number line:

-51 from 55



[Watch Video Solution](#)

**13.** Subtract without using number line:

75 from -10



[Watch Video Solution](#)

**14.** Subtract without using number line:

-31 from -47



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**15.** Find:  $25 - (15)$



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**16.** Find:  $(-20) - (13)$



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**17. Subtract:**

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



**Watch Video Solution**

**18. Subtract:**

$$72 - (90)$$



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**19. Find:  $24 - (18)$**



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20. Find:  $(-32) - (-40)$



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21. Simplify:

$$2 - 4 + 5 - 8 - 10$$



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22. Simplify:

$$4 - 2 + 2 - 4 - 2 + 2$$



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**23. Simplify:**

$$4 - (-9) + 7 - (-3)$$



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**24. Simplify:**

$$(-7) + (-19) + (-7)$$



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**Multiple Choice Questions**

1. How many integers are between -3 to 3?

A. 5

B. 6

C. 4

D. 3

**Answer: A**



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2. Which of the following integer is greater than -3?

A.  $-5$

B.  $-4$

C.  $0$

D.  $-10$

**Answer: C**



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**3.** Which of the following integers are in ascending order?

A.  $-5, -9, -7, -8$

B.  $-9, -8, -7, -5$

C.  $-5, -7, -8, -8, -9$

D.  $-8, -5, -9, -7$

**Answer: B**



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4. Which of the following integers are in descending order?

A.  $3, 0, -2, -5$

B.  $-5, -2, 0, 3$

C.  $-5, -3, -2, 0$

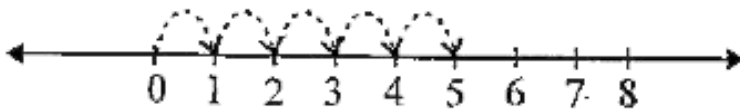
D.  $-2, 0, -5, 3$

**Answer: A**



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5. The given number line represents



A.  $5 + 1$

B.  $1 + 5$

C.  $1 + 1 + 1 + 1 + 1$

D.  $5 + 5 + 5 + 5 + 5$

**Answer: C**



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**6. 3 less than -2=**

A.  $-5$

B.  $-6$

C.  $5$

D.  $6$

**Answer: A**



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7.  $(-2) + 8 = \dots\dots\dots$

A.  $-6$

B.  $-10$

C.  $10$

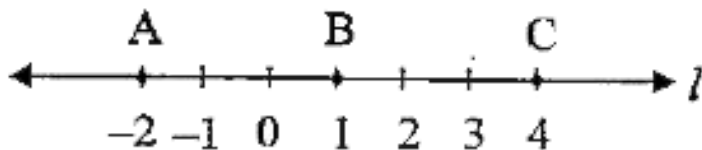
D.  $6$

**Answer: D**



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8. Which of the following statements is true about the given number line.



A. Value of A is greater than value of B

B. Value of A is greater than value of C

C. Value of B is less than value of C

D. Value of C is less than value of B

**Answer: C**



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9.  $[13 + (12)] + \_ = 13 + [( - 12) + ( - 7)]$

A.  $-19$

B.  $30$

C.  $-23$

D.  $-8$

**Answer: D**



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10. Fill in the missing fractions:

$$\square + \frac{5}{27} = \frac{12}{27}.$$

A. 0

B.  $-54$

C.  $-24$

D. 54

**Answer: A**



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