



Integers DPP-01

Multiple Choice Questions

1. The smallest Integer is
(1) -1 (2) 0 (3) 1 (4) Not defined
2. Replace $*$ in the given statement by $>$, $<$, $=$. So that the statement is true. $-8 * -12$.
(1) $>$ (2) $<$ (3) $=$ (4) None of these
3. The greatest Integer among the -234 , 760 , 1000 , -6500 is
(1) 760 (2) -234 (3) 1000 (4) -6500
4. What number are included in integer?
(1) Whole number (2) Natural number
(3) Negative numbers (4) All of these
5. Match the column.
(i) -8 _____ 8 (a) $>$
(ii) 27 _____ -27 (b) $=$
(iii) 15 _____ 15 (c) $<$

SOLUTIONS DPP-01

1. **Option (4)**

The smallest Integer is not defined.

2. **Option (1)**

$$-8 > -12$$

3. **Option (3)**

The greatest Integer is 1000.

4. **Option (4)**

Integers includes whole Numbers and negatives of the natural numbers.

5. Match the column.

(i) $-8 < 8$

(ii) $27 > -27$

(iii) $15 = 15$

(i) c, (ii) a, (iii) b



Integers DPP-02

Multiple Choice Questions

1. Which number will we reach if we move 4 numbers to the right of -2 .
(1) 2 (2) -3 (3) -2 (4) -1
2. Positive Integers are written on the _____ of the 0 on number line.
(1) Left side (2) Right side (3) Both the sides (4) Can't say
3. Which of the Integer in the given pair is to the left of the other on the number line? 20, -3 .
(1) 20 (2) -3 (3) 20, -3 (4) None of these
4. On a number line, when we subtract a negative integer, we
(1) Move to the right (2) Move to the left
(3) Do not move at all (4) None of these
5. Compare two positive integer 156 ___ 84
(1) = (2) < (3) > (4) None of these
6. Compare two positive & Negative integer -234 ____ 234
(1) < (2) > (3) = (4) None of these
7. Which of the following is true?
(1) $(-8) + (-4) > (-8) - (-4)$ (2) $(-8) + (-4) < (-8) - (-4)$
(3) $(-8) + (-4) = (-8) - (-4)$ (4) $(-8) + (-4) \leq (-8) - (-4)$

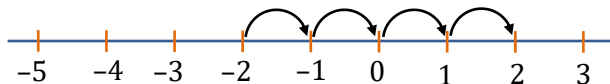
Subjective Questions

8. Draw a number line vertically and horizontally and locate negative and positive integers on it.
Direction (Q.9 and Q.10): Using Number line write the integer.
9. 5 more than -5
10. 6 more than 2

SOLUTIONS DPP-02

1. Option (1)

$$(-2) + 4 = 2$$



2. Option (2)

Positive Integers are written on the right side of the 0 on number line.

3. Option (2)

Left on the number line is -3

4. Option (1)

On a number line, when we subtract a negative integer, we move to the right.

5. Option (3)

Compare Number $156 > 84$

6. Option (1)

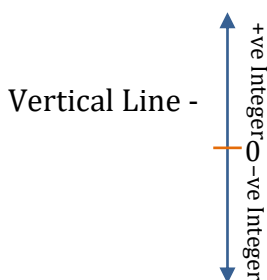
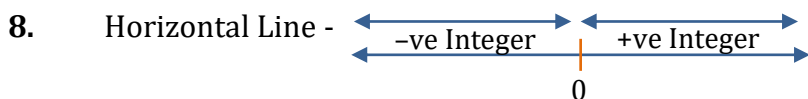
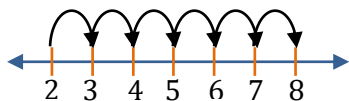
Compare Number

$$-234 < 234$$

7. Option (2)

$$(-8) + (-4) < (-8) - (-4)$$

$$\therefore -12 < -4$$

9. 5 more than -5 $\Rightarrow -5 + 5 = 0$ 10. 6 more than 2 $\Rightarrow 2 + 6 = 8$ 



Integers DPP-03

Multiple choice questions

1. Write in the form of Integer : 16 degrees below zero temperature.
(1) -16 (2) $+16$ (3) ± 16 (4) ∓ 6
2. Write opposite to the given statement : The earning of rupees 299.
(1) Gain Rs. 299 (2) Profit Rs.299 (3) Loss Rs.299 (4) None of these
3. Write in the form of Integer : A gain of eleven pounds in weight.
(1) -11 (2) ± 11 (3) $+11$ (4) ∓ 11
4. Write opposite to the given statement: Going 20km towards West.
(1) 20 km towards East (2) 20 km towards West
(3) 20 km towards South (4) 20 km towards North
5. Write in the form of integer : Rs. 2350 withdrawn from bank account.
(1) $+ \text{Rs. } 2350$ (2) $-\text{Rs. } 2350$ (3) $\pm \text{Rs. } 2350$ (4) None of these
6. Write in the form of Integer: 425 feet above sea level.
(1) ± 425 (2) -425 (3) ∓ 425 (4) $+425$
7. Write a signed integer for following real-world situation. The opposite of 539.
(1) -539 (2) ∓ 539 (3) ± 539 (4) $+539$

Subjective Questions

8. Write in the form of Integer : 84 feet below sea level.
9. Write in the form of Integer : A deposit of Rs. 2860 in bank account.
10. Write in the form of Integer : stock market went up 3690 points.

SOLUTIONS DPP-03

1. Option (1)

Below zero temperatures are represented by negative signed integers.

∴ 16 degrees below zero temperature is represented by the signed integer -16 .

2. Option (3)

The loss of Rs 299.

3. Option (3)

A gain is represented by a positive signed integer.

∴ A gain of eleven pounds in weight is represented by the signed integer $+11$.

4. Option (1)

Going 20km towards east.

5. Option (2)

Rupees withdrawn is represented by a negative signed integer.

∴ Rs. 2350 withdrawn is represented by the signed integer $-\text{Rs. } 2350$.

6. Option (4)

Position above sea level is represented by a positive signed integer.

∴ 425 feet above sea level is represented by the signed integer $+425$.

7. Option (1)

The opposite of positive signed integer is represented by a negative signed integer.

∴ The opposite of 539 is represented by the signed integer -539 .

8. 84 feet below sea level

Position below sea level is represented by $-ve$ signed integer.

∴ 84 feet below sea level is represented by signed integer -84 .

9. A deposit in bank account is represented by $+ve$ signed integer.

∴ deposit of Rs 2860 in bank account is represented by the signed Integer $+2860$.

10. Stock market going up represented by the positive signed integer.

The statement "stock market went up 3690 points" is represented by the signed integer $+3690$.



Integers DPP-04

Multiple Choice Questions

1. Solve : 5 less than -2 is
(1) 3 (2) -3 (3) -7 (4) 7
2. Solve : $(-35) + (-32)$ is equal to
(1) 67 (2) -67 (3) -3 (4) 3
3. What integer should be added to -15 to get 14 ?
(1) 1 (2) 15 (3) 29 (4) 16
4. On subtracting -5 from 0, we get
(1) -5 (2) 5 (3) 50 (4) 0
5. Solve : $(-16) + 14 - (-13)$ is equal to
(1) -11 (2) 12 (3) 11 (4) -15

Subjective Questions

6. Add -10 and -20 .
7. Subtract -20 from -50 .
8. Evaluate : $-40 + (-5) + 3 - (-5)$.
9. Evaluate : $-2 - (-4) - (-6)$.
10. Aman deposits Rs. 2500 on Monday, Rs. 9500 deposits on Tuesday, Rs. 3000 withdrawn on Wednesday, Rs. 4000 deposits on Thursday, how much money remains in his account?

SOLUTIONS DPP-04

1. Option (3)

We know that 5 less than $-2 = (-2) - (5) = -2 - 5 = -7$.

2. Option (2)

It can be written as $(-35) + (-32) = -(35 + 32) = -67$

3. Option (3)

$$-15 + 29 = 14$$

29 should be added to -15 to get 14.

4. Option (2)

$$\text{We know that } 0 - (-5) = 0 + 5 = 5$$

Hence by subtracting -5 from 0, we obtain 5.

5. Option (3)

$$\text{It can be written as } (-16) + 14 - (-13) = (-16) + 14 + 13 = (-16) + 27 = 27 - 16 = 11$$

6. Add $= -10 + (-20)$

$$= -10 - 20$$

$$= -30$$

7. Subtract $= -50 - (-20)$

$$= -50 + 20$$

$$= -30$$

8. Evaluate: $= -40 + (-5) + 3 - (-5)$

$$= -40 - 5 + 3 + 5$$

$$= -45 + 8$$

$$= -37$$

9. Evaluate: $= -2 - (-4) - (-6)$

$$= -2 + 4 + 6$$

$$= -2 + 10$$

$$= 8$$

10. Deposits denotes by +ve

Withdrawn denotes by -ve

ATQ,

$$+2500 + 9500 - 3000 + 4000$$

$$= 2500 + 9500 + 4000 - 3000$$

$$= 16000 - 3000$$

$$= 13000$$



Integers DPP-05

Multiple choice questions

1. What will be the additive inverse of -7 ?
(1) -7 (2) 7 (3) -6 (4) -8
2. The additive inverse of $11 + (-7)$ is
(1) 7 (2) -11 (3) -4 (4) 4
3. The successor of $498 + (-1015)$ is _____.
(1) -517 (2) -516 (3) 516 (4) 517
4. The predecessor of $400 + (-1000)$ is
(1) 1400 (2) -601 (3) 600 (4) -1400
5. Which property is reflected in the following: $9 + 5 = 5 + 9$
(1) Closure (2) Commutative (3) Associative (4) Distributive
6. A pair of integers whose sum is 75 is
(1) $(-50, 25)$ (2) $(75, 0)$ (3) $(-50, -25)$ (4) $(-80, -5)$

Subjective Questions

7. What is closure property? Give an example.
8. What is additive identity? Give an example.

Identify property (Q. 9 and Q. 10)

9. $1 + (2 + (-3)) = 0 = (1 + 2) + (-3)$
10. $(-4) + 5 = 4 + (-5)$

SOLUTIONS DPP-05

1. **Option (2)**

Additive inverse of -7 is 7 .

2. **Option (3)**

$$11 + (-7)$$

$$= 11 - 7$$

$$= 4$$

The additive inverse of 4 is -4 .

3. **Option (2)**

$$498 + (-1015)$$

$$= 498 - 1015$$

$$= -517$$

The successor of -517 is -516 .

4. **Option (2)**

$$400 + (-1000)$$

$$= 400 - 1000$$

$$= -600$$

The predecessor of -600 is -601 .

5. **Option (2)**

Commutative property

$$9 + 5 = 5 + 9$$

$$14 = 14$$

6. **Option (2)**

$$75 + 0 = 75$$

7. **Closure property** under addition and subtraction states that the sum or difference of any two integers will always be an integer i.e.

if a and b are any two integers, $a + b$ and $a - b$ will also be an integer.

Example: $2 + 3 = 5 = \text{integer}$

$$7 - 8 = 7 + (-8) = -1 = \text{integer}$$

8. **Additive Identity:** There is integer 0 such that for any integer a , we have $a + 0 = 0 + a = a$

$$\text{Example: } -3 + 0 = 0 + (-3) = -3$$

9. **Associative property**

$$1 + (2 + (-3)) = 0 = (1 + 2) + (-3)$$

$$1 - 1 = 3 - 3$$

$$0 = 0$$

10. **Commutative property**

$$(-4) + 5 = 5 + (-4)$$

$$1 = 1$$



Integers DPP-06

Multiple Choice Questions

1. You take 6 steps forward and 8 steps backward. How many steps have you taken ?
(1) 3 steps backward. (2) 2 steps forward.
(3) 2 steps backward. (4) None of these
2. The sum of two integers is 47. If one of the integers is -24 , find the other.
(1) 24 (2) 71 (3) -71 (4) 23
3. Temperature of a place at 12:00 noon was $+5^{\circ}\text{C}$. Temperature increased by 3°C in first hour and decreased by 1°C in the second hour. What was the temperature at 2:00 pm?
(1) 5°C (2) -5°C (3) -7°C (4) 7°C
4. Malini and Manoj visited Kulu Manali. They observed the temperature of the place as follows. Initially there was 10°C later there was a 4° fall in the temperature. Again, there was 2° rise, 5° fall, 6° rise and 3° fall. Find the status of the temperature at the end.
(1) 18°C (2) 12°C (3) 6°C (4) 5°C
5. The sum of two integers is 30. If one of the integers is -42 , then find the other.
(1) 72 (2) -72 (3) 42 (4) None of these
6. Sum of two integers is -80 . If one of the integers is -90 , then find the other.
(1) 80 (2) 90 (3) 10 (4) -10
7. The sum of two Integers is 10. If one of them is -5 , then find the other.
(1) -10 (2) 10 (3) 2 (4) 15
8. What is difference of successor of greatest 4-digit number & predecessor of smallest 4-digit Number.
(1) 999 (2) -999 (3) 9001 (4) -99
9. A bomb displaces the oil in a well from 975 m deep and raises it to a deposit place 48 m above ground level. How far does the oil displace?
(1) 1025m (2) 1023m (3) 1000m (4) None of these
10. Ravina saved 400 dollars and then she spent 250 dollars. How much money does Ravina have now?
(1) 150 dollars (2) 160 dollars (3) 170 dollars (4) None of these

SOLUTIONS DPP-06

1. **Option (3)**

6 steps forward = 6

8 steps backward = -8

$$= 6 - 8 = -2$$

Overall, you have taken 2 step backward.

2. **Option (2)**

As the sum is 47, the other integer is obtained by subtracting - 24 from 47.

So, the required integer

$$= 47 - (-24)$$

$$= 47 + 24$$

$$= 71$$

3. **Option (4)**

Temperature at 12:00 noon = +5°

So, Temperature at 1 o'clock (1 pm) = Temperature at 12 noon + 3°C

$$= +5^{\circ} + 3^{\circ}$$

$$= +8^{\circ}\text{C}$$

And temperature at 2 o'clock (2 pm) = Temperature at 1 o'clock - 1°C

$$= 8^{\circ}\text{C} - 1^{\circ}\text{C}$$

$$= 7^{\circ}\text{C}$$

∴ Temperature at 2:00 pm is 7°C.

4. **Option (3)**

The above situation can be represented by the following numerical expression:

$$10^{\circ}\text{C} - 4^{\circ}\text{C} + 2^{\circ}\text{C} - 5^{\circ}\text{C} + 6^{\circ}\text{C} - 3^{\circ}\text{C} = 18^{\circ}\text{C} - 12^{\circ}\text{C} = 6^{\circ}\text{C}$$

5. **Option (1)**

Given, Sum of two integers = 30

Let the other integer be x

$$-42 + x = 30$$

$$x = 30 + 42$$

$$x = 72$$

∴ The other integer is 72.

6. **Option (3)**

Given that

Sum of two integers = - 80

One of the integers is - 90.

The other integer = Sum of two integers - One of the integers

$$\Rightarrow \text{The other integer} = -80 - (-90) = -80 + 90 = 10$$

Hence, the other integer is 10.

7. Option (4)

Sum of two integers = 10

One of integers is = - 5

Then second integer will be = $10 - (-5)$
= 15

8. Option (3)

Greatest 4-digit Number = 9999

Successor = $9999 + 1 = 10,000$

Smallest 4-digit Number = 1000

Predecessor = $1000 - 1 = 999$

Difference = $10000 - 999 = 9001$

9. Option (2)

$48 - (-975) = 48 + 975 = 1023$ m

10. Option (1)

Saved 200 can be represented by + 400

Spent 150 can be represented by -250

We get $400 + (-250) = 150$

Ravina has 150 dollars left.