**SAINIK SCHOOL GOPALGANAJ**

**YEAR 2021-2022**

**CLASS VII SUBJECT: MATHEMATICES**

**SUMMER VACATION H.W**

**TOPIC: INTEGERS**

Answer the following questions:-

Question 1 Write a positive integer and a negative integer whose sum is a negative integer.

Question 2 Write a positive integer and a negative integer whose sum is a positive integer.

Question 3 Write a positive integer and a negative integer whose difference is a negative integer.

Question 4 Write a positive integer and a negative integer whose difference is a positive integer.

Question 5 Write two integers which are smaller than – 5 but their difference is – 5.

Question 6 Write two integers which are greater than – 10 but their sum is smaller than – 10.

Question 7 Write two integers which are greater than – 4 but their difference is smaller than – 4.

Question 8 Write two integers which are smaller than – 6 but their difference is greater than – 6.

Question 9 Write two negative integers whose difference is 7.

Question 10 Write two integers such that one is smaller than –11, and other is greater than –11 but their difference is –11.

Question 11 Write two integers whose product is smaller than both the integers.

Question 12 Write two integers whose product is greater than both the integers.

Question13.  
Fill in the blanks using < or >.  
(a) -3 …… -4  
(b) 6 ……. -20  
(c) -8 …… -2  
(d) 5 …… -7

Question14.  
 Solve the following:  
(i) (-8) × (-5) + (-6)  
(ii) [(-6) × (-3)] + (-4)  
(iii) (-10) × [(-13) + (-10)]  
(iv) (-5) × [(-6) + 5]

Question15.  
 Starting from (-7) × 4, find (-7) × (-3)

Question16.  
 Using number line, find:  
(i) 3 × (-5)  
(ii) 8 × (-2)

Question17.  
 Write five pair of integers (m, n ) such that m ÷ n = -3. One of such pair is (-6, 2).

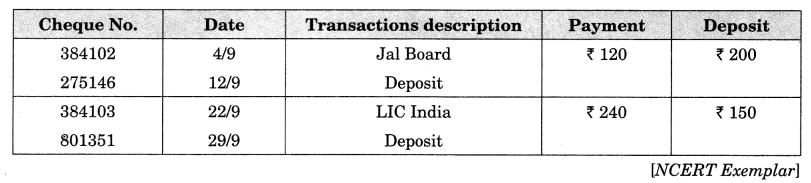
Question18.  
 Solve the following:  
(i) (-15) × 8 + (-15) × 4  
(ii) [32 + 2 × 17 + (-6)] ÷ 15

Question19.  
 The sum of two integers is 116. If one of them is -79, find the other integers.

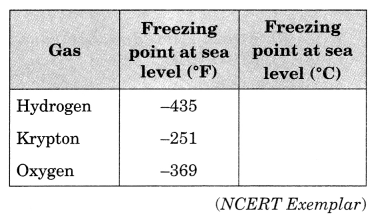
Question20.  
 If a = -35, b = 10 cm and c = -5, verify that:  
(i) a + (b + c) = (a + b) + c  
(ii) a × (b + c) = a × b + a × c

Question21.  
 Write down a pair of integers whose  
(i) sum is -5  
(ii) difference is -7  
(iii) difference is -1  
(iv) sum is 0

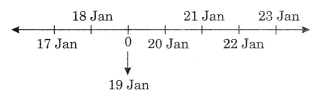
Question22.  
You have ₹ 500 in your saving account at the beginning of the month. The record below shows all of your transactions during the month. How much money is in your account after these transactions?



Question23.  
The given table shows the freezing points in °F of different gases at sea level. Convert each of these into °C to the nearest integral value using the relations and complete the table  
C = 5/9 [F – 32]



Question24.  
Taking today as zero on the number line, if the day before yesterday is 17 January, what is the date on 3 days after tomorrow?



MULTIPLE CHOICE QUESTIONS

CLASS VII

**TOPIC: INTEGERS**

Q1. In addition and subtraction of two integers, sign of the answer depends upon

(a) Smaller number (b) Their difference (c) Their sum (d) Greater numerical value Q2. Sum of two negative numbers is always

(a) Positive (b) Negative (c) 0 (d) 1 Q3. Sum of two Positive number is always

(a) Negative (b) Positive (c) 1 (d) 0 Q4. Sum of – 36 and 29 is

(a) ̶ 65 (b) 65 (c) ̶ 7 (d) 7 Q5. Sum of ̶ 19 and ̶ 21 is

(a) ̶ 40 (b) 40 (c) 2 (d) ̶ 2 Q6. Which of the following statement is false?

(a) ̶ 7 + (̶ 6 ) = ̶ 13 (b) ̶ 5 + 1 = 4 (c) 2 + (̶ 1 ) = 1 (d) 8 + (̶ 9 ) = ̶ 1

Q7. The pair of integers whose sum is ̶ 5

(a) 1, ̶ 4 (b) ̶ 1 , 6 (c) ̶ 3 , ̶ 2 (d) 5, 0

Q8. What integers or number should be added to ̶ 5 to get 4

(a) 1 (b) ̶ 1 (c) ̶ 9 (d) 9

Q9 . What will be the additive inverse of ̶ 5

(a) ̶ 6 (b) ̶ 4 (c) 3 (d) 5

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| --- | --- | --- | --- | --- | --- | --- |
| **Q10. What will be the additive inverse of** | **7** |  | | | | |
| **(a) ̶ 7 (b) ̶ 6** | **(c)** | **̶ 5** |  | **(d)** | **̶ 4** |  |
| **Q11. Predecessor of ̶ 9 is** |  |  |  |  |  |  |
| **(a) ̶ 8 (b) 8** |  |  | **(c)** | **̶ 10** |  | **(d) 10** |
| **Q12. Successor of ̶ 1 is** |  |  |  |  |  |  |
| **(a) ̶ 2 (b) 0** |  |  | **(c)** | **1** |  | **(d) 2** |
|  |  |  |  |  |  |  |