Negative Numbers And Integers

I. ANSWER THE FOLLOWING:

1. Which is the smallest positive integer?

2. Which is the greatest negative integer?

3. Write absolute value of a) $|-13|$ b) $-|-30|$

4. Which integer is neither positive nor negative?

5. Write the opposite of -875.

6. Which is greater: -41 or -14 ?

7. Write the integer which is 5 more than -5 .

8. Find $(-19) + 9$.

9. Replace * by < or >

   i) -3 * 3 ii) 0 * -125

10. Subtract -1140 from -780.

II. ANSWER THE FOLLOWING:

1. Write all integers belween – 35 and – 31.

2. Sum of two integers is 1890. If one of them is – 412 . Find the other integer.

3. Fill the boxes with < or >

i) (- 9) + (- 6) ☐ (- 6) - (- 9)

4. Add i) - 2050 ii) 396 c) - 493

+ 687 -159 + 108

5. Simplify

i) – 37 + 28 – 6 + 23

ii) 1 - 3 + 5 – 7 + 9 – 11 + 13 – 17

iii) 0 + 2 – 4 + 6 – 8 + 10 – 12 + 14

6. Represent all integers belwees – 5 and + 3 on the number line.

7. Write the integer which is i) 3 more than – 2 (ii) 4 less than – 1

iii) – 2 more than – 5 iv) – 3 less than – 4

Show answers on number line.

8. Arrange in increasing and decreasing order.

i) – 12 , 0 , 7 , -9 , 8 , – 8 , –14

ii) – 3, 2, – 5 , 10 , 11 , – 15 , 6 , 25

ii) – 6 , 0 , – 5 , – 7 , 3, 4, – 16 , 8

9. Find the value of i) 9 – / – 7 / ii) – / – 15 / iii) 26 – / –10 / + / – 13 /

iv) 4 + / – 4 / + 4 + / – 4 /

10. Draw a number line and answer the following:

a) Which number will we reach if we move 3 number to the left of – 5 .
b) If we are at + 3 in which direction should we move to reach – 10.

Negative Numbers and Integers

1. Draw a number line and represent the integers O, 2, +4, -3, -5 and 6
2. Write the absolute values of the following integers. 17, -8, 0, -16, 25 and -11
3. Write the additive inverse of the following integers. -17, 25, -101, 249, -2167 and 3190
4. Put > or < sign in the boxes.

i) (-7) + 12 - (-2) ☐ (-6) -11 + (-3)

ii) 5 – (-16) + (-4) ☐ (-2) – (-7) + 6

iii) (-15) – (-7) + 13 ☐ 4 + (-12) – (-3)

iv) 7 – 5 + (-21) ☐ 6 – 18 + (-5)

5. What should be added to the sum of (-26) and 31 to make it equal to the sum of (-35) and (-11)?
6. Which is greater? The sum of 72 and (-42) or the sum of (-65) and 96.
   By how much?
7. Subtract the sum of 32 and (-11) from the sum of 49 and (-53)
8. Evaluate :

i)	(-40) + (-21) + (-16)	vi)	(-66) + (-22) +45 – (-33)
ii)	72 + (-16) + 40 + (-22)	vii)	3000 + (-1000) - (-2000)
iii)	63 + (-24) + (-23)	viii)	28 + (-50) - (-41) + (-100)
iv)	53 + (-42) – (-29) + (-11)	ix)	(-1001) – (-450) + (-750)
v)	(-100) + 47 + (-29) + 16	x)	(-16) + (-12) - (-21) + (-30) + 40

9. Write the next four integers of the following progressions:
   +5, +8, +11, ____, ____, ____, ____.
   -5, -9, -13, ____, ____, ____, ____.
   -15, -25, -35, ____, ____, ____, ____.
   -6, -3, 0, ____, ____, ____, ____.
   -12, -5, 2, ____, ____, ____, ____.
10. Write the following integers in ascending order:

i) -8, 11, 14, 0, -7, -3, -1 ii) 15, -12, -6, -5, 8, 2, 0