



Unit 6 Integers

A. Select the correct answer :

1. Which impression has a value greater than -5?

- a. $-16 + 8$ b. $4 + (-9)$ c. $3 + (-7) - (-1)$ d. $(-4) + (-5) + 3$

2. The integer greater than every negative integer and smaller than every positive integer is

- a. 9 b. 1 c. 0 d. -1

B. Fill in the blanks :

a. $(-9) + \underline{\hspace{2cm}} = 0$

b. $14 + \underline{\hspace{2cm}} = 0$

c. $13 + (-13) = \underline{\hspace{2cm}}$

d. $-5 + (\underline{\hspace{2cm}}) = -13$

e. $\underline{\hspace{2cm}} - 25 = -20$

C. Compare $>$, $<$ or $=$ sign

a. $(-2) + (-5) \underline{\hspace{1cm}} (-2) - (-5)$

b. $-39 - (-20) \underline{\hspace{1cm}} (-39) + (-20)$

c. $33 - (-11) \underline{\hspace{1cm}} 47 + (-3)$

d. $-35 - (-42) \underline{\hspace{1cm}} (-42) - (-35)$

e. $4 + (-4) + 4 + (-4) \underline{\hspace{1cm}} 0$

D. Use integers to write the addition sentence to represent each of the following situations.

- i. At 5 a.m., the temperature was 7°C below 0°C . An hour later it increased by 1°C .
- ii. Anil deposited 800 in his bank account. The following week he withdrew ₹ 95.
- iii. Tanay climbs up 23 steps and then climbs down 15 steps.
- iv. Radhica lost 12 kg wt and then gained 5 kg wt.
- v. A submarine went 700 m below sea level and then came up 350 m.

E. Solve the following :

1. Write all odd integers between -9 and 13.
2. Write all integers between -18 and 1 that are divisible by 4.
3. Write a situation that each integer could represent.
 - i. +35
 - ii. -550
 - iii. +260
 - iv. -1005
4. Which one of the following integers in each set has an opposite with the least value?
 - i. 3, 7, -8, -15, 0, 27
 - ii. 312, -240, -521, 448, -790
5. Which one of the following integers in each set has an opposite with the greatest value.
 - i. -7, 102, -566, 685, -992
 - ii. 13, 24, -47, 100, -29, 512
6. Write an even integer which is smaller than -5 and greater than -8.

7. Simplify $-5 + (-9) - (-15) - 21$.

8. Write the integers which comes before and after the given integers

a. -8 b. -21 c. 0 d. 5 e. 100

f. -1000 g. -40 h. -900 i. 665 j. -2000