Representation of Integers on a Number Line

1. **Which number in each of the following pairs is to the right of the other on the number line?**

   i) 5, 18 ☐ ii) 3, – 3 ☐

   iii) 0, – 5 ☐ iv) –16, –20 ☐

2. **Write all integers between each of the following.**

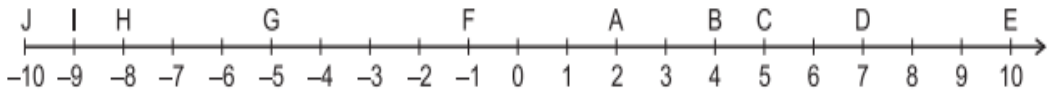
   i) – 7 and 3 ☐ ii) – 8 and 7 ☐

   iii) – 4 and 0 ☐ iv) 2 and 8 ☐

3. **Represent the following numbers on number line.**
   - **a.** –7
   - **b.** + 8
   - **c.** – 6

4. **Answer the following questions by using a number line.**
   - **a.** If you are at –5 on the number line, in which direction will you move to reach 3?
   - **b.** If you are at 8 on the number line, in which direction will you move to reach –7?
   - **c.** Which number will you reach, if you move 5 number to the left of –1?

5. **Given below is a number line representing the integers. Look at it and answer the questions.**



   - **a.** Write the integer for D, F, G.
   - **b.** Is E a positive integer or a negative integer?
   - **c.** Which integers are in the middle of A and H?
   - **d.** If point C is 5, which point is –5?
   - **e.** Which point marked on this number line has greater value?

6. **With the help of number line, give two possible integral values of x if.**

   a. $x > 4$ _____

   b. $x < 1$ _____

   c. $1 < x < 4$ _____

   d. $-6 < x < -3$ _____

7. **Write T for true and F for false statements.**

   a. The smallest integer is zero. ☐

   b. The opposite of zero is zero. ☐

   c. –29 is greater than –16. ☐

   d. Zero is not an integer since it is neither positive nor negative. ☐

   e. The absolute value of an integer is always greater than the integer. ☐

8. **Choose the correct option.**

   a. The predecessor of –498 is _____ .

   i) - 497 ☐ ii) – 499 ☐

   iii) 497 ☐ iv) 499 ☐

   b. The successor of –5801 is _____ .

   i) –5800 ☐ ii) 5802 ☐

   iii) +5800 ☐ iv) - 5802 ☐

   c. The negative of a negative integers is

   i) negative ☐ ii) positive ☐

   iii) zero ☐ iv) 499 ☐

   d. Which number in each of the following pairs is smaller?

   i) 8, – 8 ☐ ii) 0, – 9 ☐

   iii) – 40, –11 ☐ iv) 317, –731 ☐