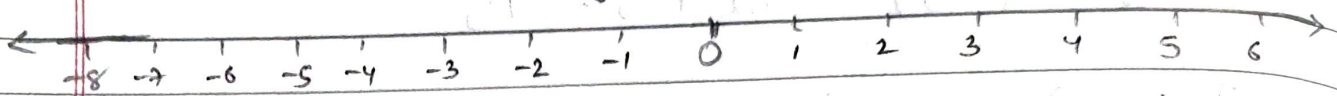


NUMBER LINE

CH-7

Ex-7(A)

1. Fill in the blanks, using the following number line:



- i) An integer, on the given number line, is greater than every number on its left.
- ii) An integer on the given number line is greater than every number to its left.
- iii) 2 is greater than -4 implies 2 is to the right of ~~-4~~ -4.
- iv) -3 is less than 2 and 3 is greater than -2.
- v) -4 is greater than -8 and 4 is less than 8.
- vi) 5 is greater than 2 and -5 is less than -2.
- vii) -6 is less than 3 and the opposite of -6 is greater than opposite of 3.
- viii) 8 is greater than -5 and -8 is less than 5.

2. In each of the following pairs, state which integer is greater:

(i) -15, -23

$$\boxed{-15} > -23$$

(i) $-12, 15$

$$-12 < 15$$

(ii) $0, 8$

$$0 < 8$$

(iii) $0, -3$

$$0 > -3$$

3. In each of the following pairs, state which integer is smaller.

(i) $0, -6$

$$-6 < 0$$

(ii) $2, -3$

$$-3 < 2$$

(iii) $15, -51$

$$-51 < 15$$

(iv) $13, 0$

$$0 < 13$$

4. In each of the following pairs, replace with $<$ or $>$ to make the statement true.

(i) $3 * 0$

$$3 > 0$$

(iii) $-9 * -3$

$$-3 > -9$$

(ii) $0 * -8$

$$0 > -8$$

(iv) $-3 * 3$

$$3 > -3$$

(v) $5 \neq -1$

$$5 > -1$$

(vi) $-13 \neq 0$

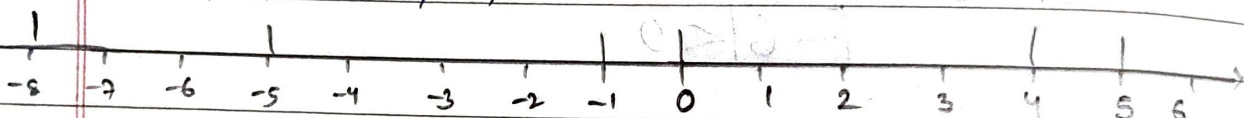
$$0 > -13$$

(vii) $-8 \neq -18$

$$-8 > -18$$

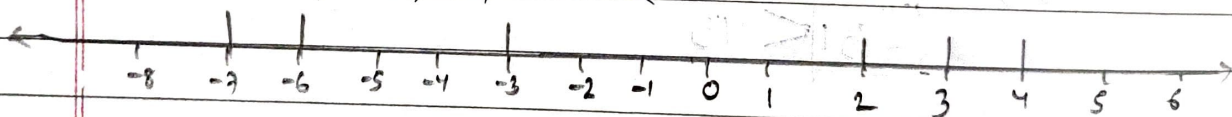
5. In each case, arrange the given integers in ascending order, using a number line:

(i) $-8, 0, -5, 5, 4, -1$



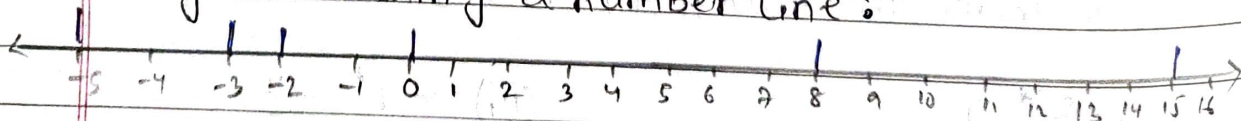
$$-8 < -5 < -1 < 0 < 4 < 5$$

(ii) $3, -3, 4, -7, 0, -6, 2$



$$-7 < -6 < -3 < 0 < 2 < 3 < 4$$

6. In each case arrange the given integers in descending order using a number line:



(i) $-5, -3, 8, 15, 0, -2$

$$15 > 8 > 0 > -2 > -3 > -5$$

(i) 12, 23, -11, 0, 7, 6



$$23 > 12 > 7 > 6 > 0 > -11$$

7. For each of the statements given below, state whether it is true or false :

- (i) The smallest integer is 0. False
- (ii) The opposite of -17 is 17. True
- (iii) The opposite of zero is zero. True
- (iv) Every negative integer is smaller than 0. True
- (v) 0 is greater than every positive integer. False
- (vi) Since zero is neither negative nor positive, it is not an integer. False