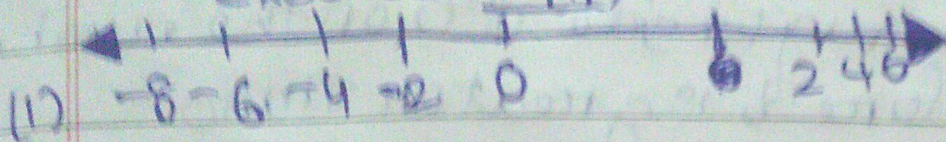


222

Exercise - 7 (A)



- (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 on the right of -4

- (v)  $-3$  is less than  $2$  and  $3$  is greater than  $-2$
- (vi)  $-4$  is greater than  $-8$  and  $4$  is less than  $8$
- (vii)  $5$  is greater than  $2$  and  $-5$  is less than  $-2$
- (viii)  $-6$  is less than  $3$  and the opposite of  $-6$  is greater than opposite of  $3$
- (ix)  $8$  is greater than  $-6$  and  $-8$  is less than  $6$

(2) (i)  $-15, -23$

$-15$  lies on the right side of  $-23$  on the number line. Therefore,  $-15$  is greater than  $-23$ .

(ii)  $-12, 15$

$15$  lies on the right side of  $-12$  on the number line. Hence,  $15$  is greater than  $-12$ .

(iii)  $0, 8$

$8$  lies on the right side of  $0$  on the number line, therefore  $8$  is greater than  $0$ .

(iv)  $0, -3$

$0$  lies on the right side of  $-3$  on the number line. Hence,  $0$  is greater than  $-3$ .

192) ~~Q2~~ In each of the following pairs, which integer is smaller:

(i) 0, -6

(A)  $-6 < 0$

(ii) 2, -3

(A)  $-3 < 2$

(iii) 15, -51

(A)  $-51 < 15$

(iv) 13, 0

(A)  $0 < 13$

(4) (i)  $3 * 0$

(A)  $3 * 0$

(ii)  $0 * -8$

(A)  $0 > -8$

(iii)  $-9 * -3$

(A)  $-9 < -3$

(iv)  $3 * 3$

(A)  $3 < 3$

(v)  $5 * -1$

(A)  $5 > -1$

(vi)  $-13 * 0$

(A)  $-13 < 0$

(vii)  $-8 * -18$

(A)  $-8 > -18$

~~(i)  $5 + 6 = 11$~~

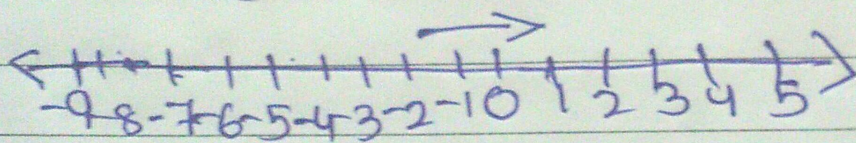
~~(ii)  $5 + 6 = 11$~~

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

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

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

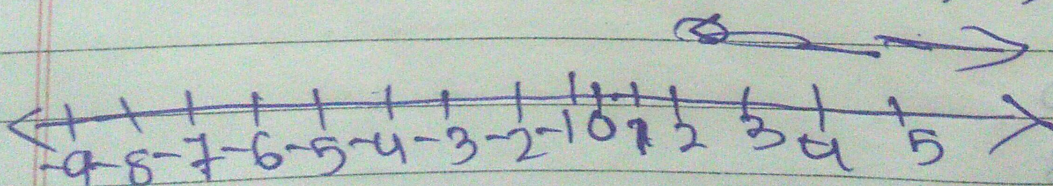
Draw a number line and mark the numbers on it. Arranging in ascending order, as shown  ~~$-8, 0, -5, 5, 4, -1$~~   $-8, -5, -1, 0, 4, 5$  as on the number line



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

Draw the number line and mark the numbers on it. Arranging in ascending order as shown

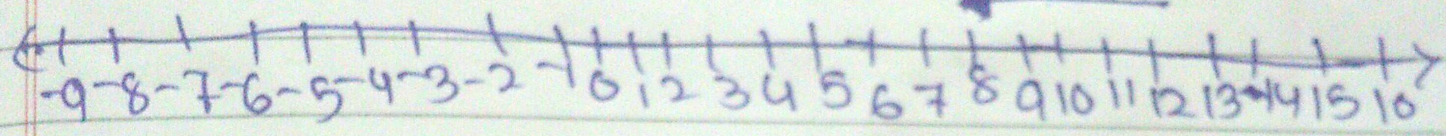
on the number line.  $-7, -6, -3, 0, 2, 3, 4$



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

Draw the number line and mark these numbers

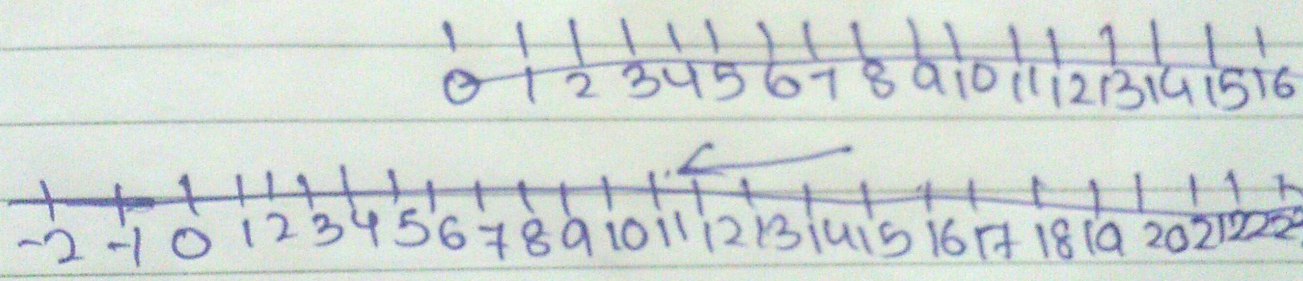
on it. Arranging in descending order is  $15, 8, 0, -2, -3, -5$  as shown on the number line



Q (ii)  $12, 23, -11, 0, 7, 6$

Draw a number line and mark these numbers

on it. Arranging in descending order:  $23, 12, 7, 6, 0, -11$  as shown on the number line



Q 7 True and 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) ~~The~~ Every negative integer is smaller than 0 (True)
- (v) 0 is greater than every positive integer. (False)

(7)(vi) Since, zero is neither negative nor positive  
it is not an integer (False)