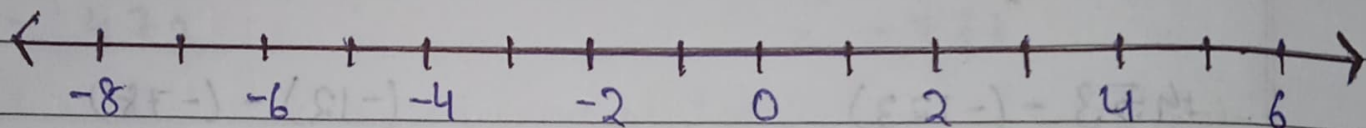


EXERCISE - 7 (A)

C/W
12/5/21

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



i) An integer, on the given no. line, is greater than than every number on its left.

ii) An integer on the given number line is greater than every number on its ~~left~~ left.

iii) 2 is greater than -4 implies 2 is to the right side of -4.

iv) -3 is lesser than ~~than~~ 2 and 3 is greater than -2.

i) -4 is greater than -8 and 4 is less than 8 .

vi) 5 is greater than 2 and -5 is less than -2 .

ii) -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) $-15, -23$

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

$\therefore -15$ is greater

ii) $-12, 15$

$$-12 \boxed{<} 15$$

$\therefore 15$ is greater

iii) $0, 8$

$$0 \boxed{<} 8$$

$\therefore 8$ is greater

iv) $0, -3$

$$0 \boxed{>} -3 \quad \therefore 0 \text{ is greater}$$

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

i) $0, -6$

$$0 \boxed{>} -6$$

$\therefore -6$ is smaller
 $\therefore 0$ is greater

ii) $2, -3$

$$2 \boxed{>} -3$$

$\therefore -3$ is smaller

iii) $15, -51$

$$15 \boxed{>} -51$$

$\therefore -51$ is smaller

iv) $13, 0$

$$0 \boxed{<} 13$$

$\therefore 0$ is smaller

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

i) $3 * 0$

$3 > 0$

ii) $0 * -8$

$0 > -8$

iii) $-9 * -3$

$-9 < -3$

iv) $-3 * 3$

$-3 < 3$

v) $5 * -1$

$5 > -1$

vi) $-13 * 0$

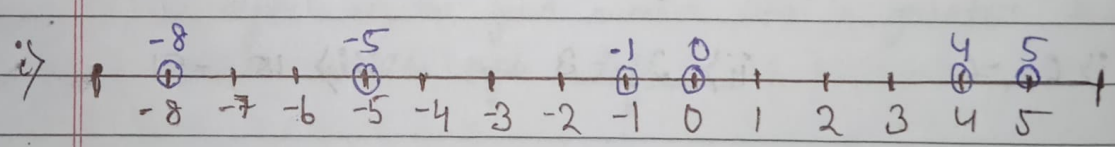
$-13 < 0$

vii) $-8 * -18$

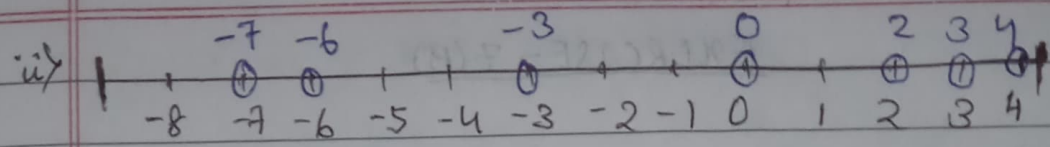
$-8 > -18$

NOTE:
0 is greater than every negative integer.

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

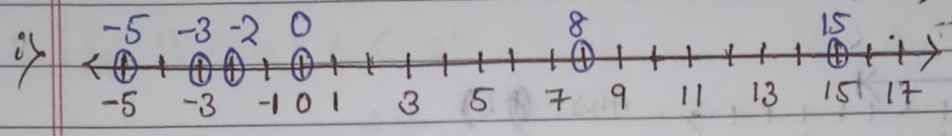


Ans - $-8 < -5 < -1 < 0 < 4 < 5$

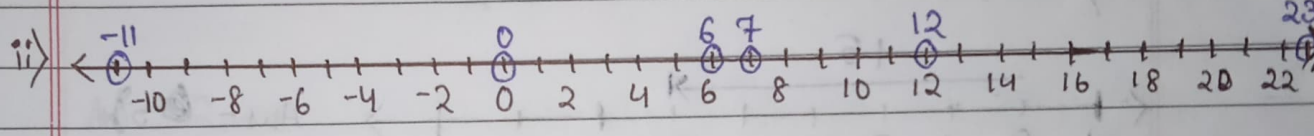


Ans- $-7 < -6 < -3 < 0 < 2 < 3 < 4$

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



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



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

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 0 is 0. True
- iv) Every negative integer is smaller than 0. True
- v) 0 is greater than every positive integer. False
- vi) Since zero is neither a negative nor positive, it is not an integer. False