HW 15/5/2021

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Ex-7(A)

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

i) An integer, on the given number line, is bigger 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.

iv) -3 is less than 2 and 3 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.

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

i) $-15, -23$

Ans -15

ii) $-12, 15$

Ans 15

iii) $0, 8$

Ans 8

iv) $0, -3$

Ans 0

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

i) ~~$+5, -23$~~

i) $0, -6$

Ans -6

ii) $-2, -3$

Ans -3

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iii) 15, -51

Ans -51

iv) 13, 0

Ans 0

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

i) 3 * 0

Ans >

ii) 0 * -8

Ans >

iii) -9 * -3

Ans <

iv) -3 * 3

Ans <

v) 5 * -1

Ans >

vi) $-13 * 0$

Ans $<$

vii) $-8 * -18$

Ans $>$

viii)

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

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

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

ii) $3, -3, 4, -7, 0, -6, 2 \rightarrow -7, -6, -3, 0, 2, 3, 4$

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

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

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

ii) $12, 23, -11, 0, 7, 6 \rightarrow 23, 12, 7, 6, 0, -11$

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

i) The smallest integer is 0. False

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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