Grade 9

Mathematics

Covid -19 – weekly school

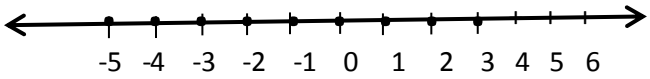
september 1st week

21. Inequalities

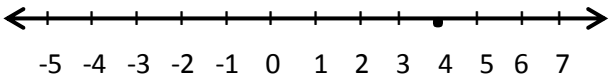
- Answer the review exercise to recall what has been learnt earlier.
- Study the example given below and answer the exercise 21.1
  1. Solve the inequality x+5<8 and write the set of integral solutions.
     X+5 < 8
     X+5-5 < 8-5
     X < 3 (x is less than 3)

     The set of integral solution {2,1,0,-1,…}

     The can be represented on a number line as follows.



1. Solve the inequality x-3 ≥1 and represent the integral solutions on a number line.
   x-3 ≥ 1
   x-3+3 ≥ 1+3
   x ≥ 4 (x is greater than 4)



When on inequality is multiplied or divided by a negative number, the inequality sing changes. That is, the sing < changes to > and the sing ≥ changes to ≤.

Answer the exercise 21.2