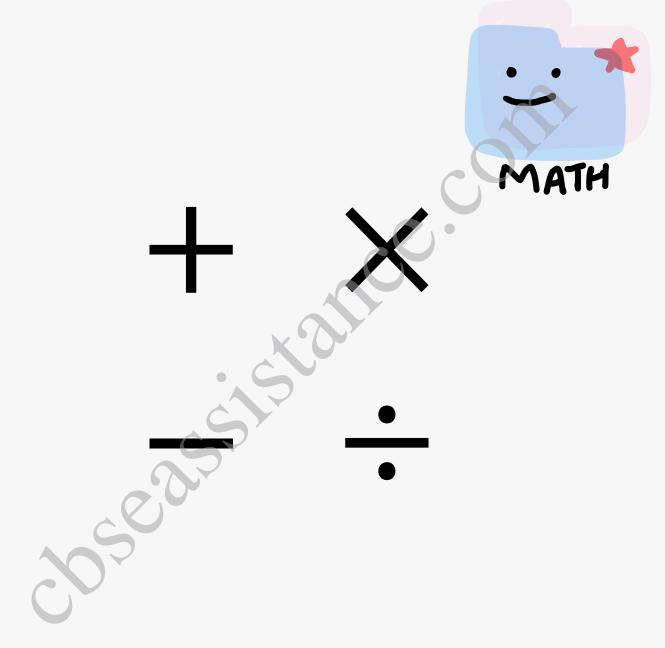
Number System Ex. 1.2



Ex. 1.2 1 D'Ime, every ionational number is a real number as the collection of real numbers is made up of rational and iserational numbers. (1) Folse, every point on the number line is not of the form Im, where 'n' is a natural number as no negative number can be the square rest of (1) Folse, every real number is not an iviational number e.g. 5 je a real number but not an irrational number. 2. No, the square roots of all positive integers are not irrational. e.g. 19 = 3, which is a rotional number. 3. AB=1 unit, BC=2 units Steps of construction: 1.) Drow a line l. 2) Mark points ---, -2, -1, 0, 1, 2, --- on the number line ot equal distance. 3) Drow a perpendicular at point B.

4.) With point B as centre and radius= 2 units, draw an arc intersecting BX at points. 5) Join C and A. 6) With point A as the centre and radius = Ac, drow on arc intersecting line l' at point D. 7) Coint D represents 15 Justification: AB=1 unit BC=2 units Using Bythagoras theorem in SABC AC²= AB² + BC² $AC^2 = 1^2 + 2^2$ $AC^{2} = 144$ $AC^2 = 5$ AC= 15 5) Classroon activity for drawing a square root spiral.