Class X, Syllabus – ICSE

Subject Mathematics.

Chapter – Linear Inequations.

Important Practice Questions.

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- If -4 < 2x + 6 < 2, x belongs to R then x lies in –
 a.) (-4, 6) b.) (-5, -2) c.) (-4, -2) d.) (-5, 6)
- 2. If n is real number then lxl >= represent :
 a.) x >= n b.) x =< -n c.) -n =< x =< n d.) x > -10
- 3. Find the interval in the inequestion in which x lies (x-5)3 > 125, X € R.
 a. x < 5 b. x > 10 c. x < -5 d. x > -10
- 4. Find the solution set of the inequestion 2y 5 =< 5y+ 4 =< 11 where x € I.
 a.) [1,2,3,4,5] b.) [0,1,2,3,4,5] c.) [-3,-2,-1,0,1] d.) None of these.
- 5. Find the solution set of the inequation 4 < 3 2x < 5, x € to N. a.) $-\frac{1}{2} > x > 1$ b.) \$ c.) 1 <=x <= 4 d.) $-\frac{1}{2} < x <= 3$
- 6. Find the solution set of the inequality 3x/ 5 –(2x-1) / 3 > 1x € W.
 a. {0, 1, 2} b. {3, 4} c. \$ d. None of these.
- 7. The solution set for the linear Inequation -8<= x-7 < -4,x € I is :
 a.) {x:x belongs to R, -1<= x < 3} b. {0,1,2,3} c.) {-1,0,1,2,3} d.){ -1,0,1,2}
- 8. Find the solution set for :

a) (-8/5, ∞) b) (-∞, -8/5) c) (8/5, ∞) d) (-∞, 8/5)

- 9. One fourth of a stick is in water, two third of it is buried in mud and rest part of stick above the water, is greater than or equal to 2m. Find the length of the shortest stick.
 - a) 22 cm b) 23 cm c) 24 cm d) 25 cm
- 10. Solve the following in equation and represent the solution set on a number line :

-8 ½ < -1/2 - 4x <= 7 ½ ; x € I