Linear Inequalities Worksheet – 2

1.If the replacement set = {-8, -7, -5, -3, -1, 0, 1, 3, 4, 5}, then find solution set of

- i) -9 < x <1
- ii) $0 \le x \le 4$
- 2. Solve: $\frac{x}{4} + \frac{1}{5} < \frac{x}{8} + \frac{1}{2}$, $x \in W$
- 3. Solve: $-2 < \frac{x}{2} + 2 \le 5$, $x \in I$
- 4. Solve: 5 > 4x 11, $x \in N$
- 5. Solve: $9 x \le 12 2x$, $x \in N$, represent solution set on number line.
- 6. Solve: $5(x-2) < 3(x-4), x \in I$
- 7. Solve: $-3x + 8 \le 2, x \in N$
- 8. Solve: -9 (m + 2) > 7, m \in I, represent solution set on number line.
- 9. Solve: $-3 \le 3x < 12, x \in I$
- 10. Solve: 2(x 3) > 3(x + 1) 7, x ∈ I
- 11. Solve: $1 \le 2(x 3) + 4 < 12, x \in W$
- 12. Solve: $5x + 2 \le 17$, $x \in W$, represent solution set on number line.
- 13. Solve: $\frac{2}{3}(2x + 1) + 5 \le 3 + \frac{5}{3}(x + 1), x \in I$
- 14. Solve: 15 < 3x + 1 ≤ 28, x ∈ I
- 15. Solve: $7x 5 \le 25 + 2x, x \in N$
- 16. Solve: 9 3(2 + 5x) < 33
- 17. Solve: $-8 \ge 3x 5$, $x \in I$
- 18. Solve: $-2 < \frac{2x}{3} + 2 \le 10, x \in I$
- 19. Solve: 5 -20x ≥ -5, x ∈ N
- 20. Solve: $5 2x \ge x 16$, $x \in W$, represent solution set on number line.