



Name -----

Gr. 7 / A

Subject/ Math.

Revision sheet

Q.1) Simplify each expression.

1) $10x - 8x + 2 + 10$

2) $3a + 7 + 2(3 + a)$

3) $3(m - 5) + m$

4) $2s + 10 - 7s - 8 + 3s - 7$

5) $8c - 4 - 2c + 5$

6) $-4 + 7z + 3 - 2z$

7) $15 + 4(5y - 10)$

8) $2d + 17 - 3 - 2d + 4d$

9) $12n - 8 - 2n + 10 - 4$

10) $8(2k + 1 + 3k)$

11) $4(2b + 2) - 3$

12) $-4 + 8p - 6p - 5 + 20p$

Q.2) Factor each expression.

1. $3x + 15$

11. $8b + 72$

21. $3x + 24$

2. $8y - 72$

12. $7c - 35$

22. $9x - 18$

3. $9a + 18$

13. $5x - 15$

23. $2c + 16$

4. $3b - 27$

14. $6a - 48$

24. $7b - 28$

5. $5c + 40$

15. $3a - 6$

25. $7x - 56$

6. $9a + 18$

16. $9c - 63$

26. $8z - 56$

7. $6c + 18$

17. $3z + 9$

27. $7z - 28$

8. $8c - 8$

18. $6b - 12$

28. $9b + 27$

9. $5x - 10$

19. $2y + 18$

29. $4b + 24$

10. $2b - 16$

20. $3b - 6$

30. $6c + 36$

Q.3) Solve each equation.

a)

1) $10 = z + 6$

2) $8y = 48$

3) $q - 12 = 1$

4) $18 = \frac{a}{2}$

5) $\frac{r}{3} = 7$

6) $11 = m - 4$

7) $t - 19 = 2$

8) $1 + s = 3$

9) $24 = 4c$

10) $\frac{v}{5} = 9$

b)

1) $9c + 1 = 10$

2) $6y - 5 = 7$

3) $8 = 3a - 4$

4) $\frac{m}{5} + 9 = 11$

5) $13 + 7x = 27$

6) $17 - q = 6$

7) $\frac{n - 31}{4} = 2$

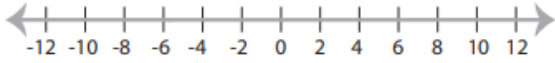
8) $1 + 2r = 35$

9) $42 + 5t = 8t$

10) $4p - 3 = 17$

Q.4) Solve each inequality and graph the solution.

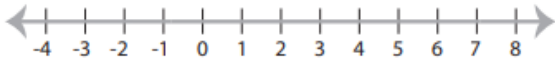
1) $x - 2 > 4$



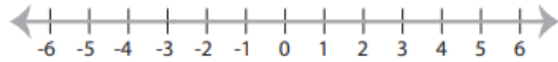
2) $\frac{x}{3} \leq 7$



3) $6x < 30$



4) $x + 9 \geq 11$



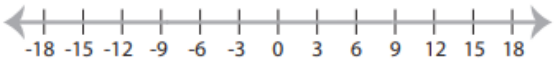
5) $\frac{x}{2} \geq 10$



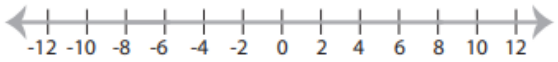
6) $x - 5 \leq 2$



7) $7 + x < 16$



8) $4x \geq 32$



Q.5) Solve each inequality.

1) $2x + 5 > 13$

2) $\frac{x-4}{3} \leq 5$

3) $5x - 7 \geq 8$

4) $\frac{x}{2} + 4 < 7$

5) $9x - 3 > 6$

6) $11 + 3x \leq 17$

7) $4x - 12 \geq 8$

8) $3x + 7 < 9$

9) $\frac{x}{4} + 1 > 10$

10) $\frac{x-6}{4} \leq 2$

11) $7x - 3 > 18$

12) $3x + 1 \geq 7$

Q.6) Circle the possible values that satisfy each inequality.



$\frac{x}{5} + 6 < 2$

14 10 -21 -12



$7 \geq 3x + 4$

4 1 2 -1



$7x + 1 \leq 15$

5 2 1 -2



$5x - 13 > 2$

2 -1 5 4



$\frac{x}{2} + 4 < 8$

8 -7 3 -2

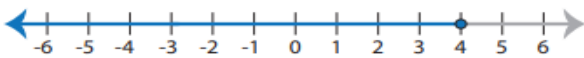


$12 + 2x < 18$

4 2 -2 6

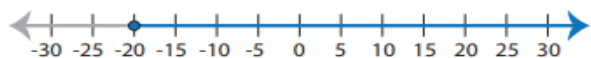
Q.7) Write the inequality that best describes each graph.

1)



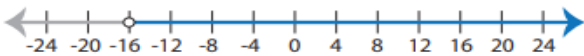
Inequality : _____

2)



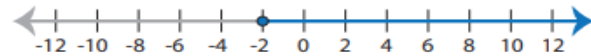
Inequality : _____

3)



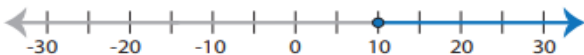
Inequality : _____

4)



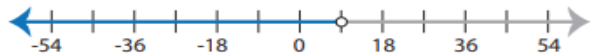
Inequality : _____

5)



Inequality : _____

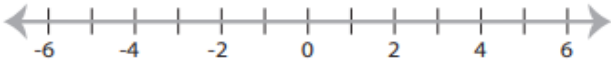
6)



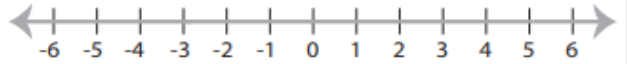
Inequality : _____

Q.8) Graph the inequality.

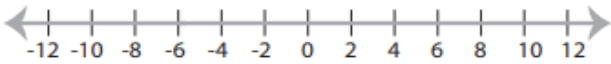
1) $x \geq -2$



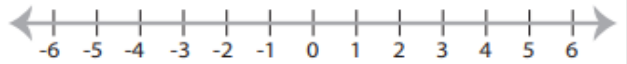
2) $x < 5$



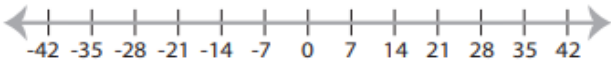
3) $x \leq 6$



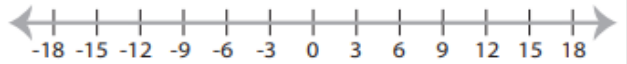
4) $x > 1$



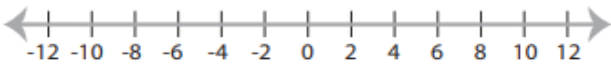
5) $x < -14$



6) $x \leq 9$



7) $x > -2$



8) $x \geq -15$

