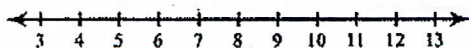


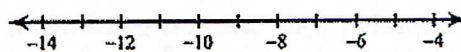
Two-Step Inequalities

Solve each inequality and graph its solution.

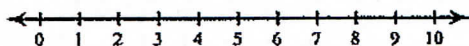
1) $2x + 4 \geq 24$



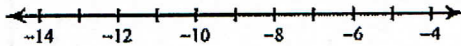
2) $\frac{m}{3} - 3 \leq -6$



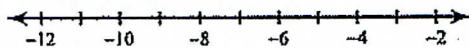
3) $-3(p + 1) \leq -18$



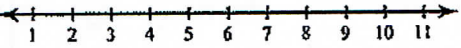
4) $-4(-4 + x) > 56$



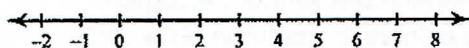
5) $-b - 2 > 8$



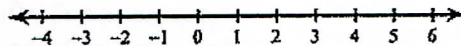
6) $-4(3 + n) > -32$



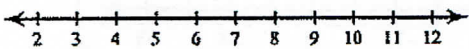
7) $4 + \frac{n}{3} < 6$



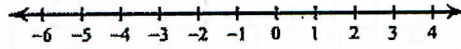
8) $-3(r - 4) \geq 0$



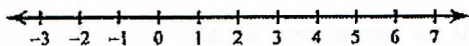
9) $-7x + 7 \leq -56$



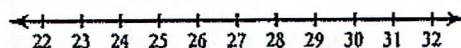
10) $-3(p - 7) \geq 21$



11) $-11x - 4 > -15$



12) $\frac{-9 + a}{15} > 1$



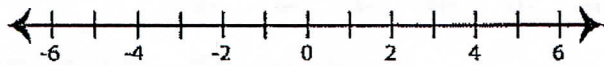
Name : _____

Score : _____

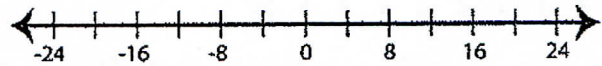
Solving & Graphing Inequalities

Solve each inequality and graph the solution.

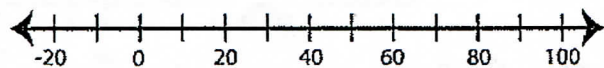
1) $5 < 9x - 4$



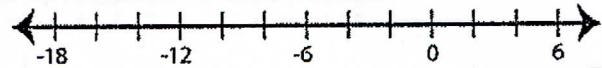
2) $3x + 7 \leq -5$



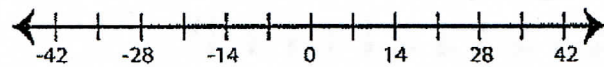
3) $1 > \frac{x}{7} - 9$



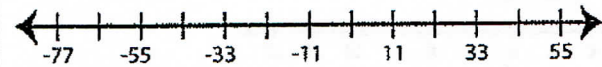
4) $7x + 20 \geq 6$



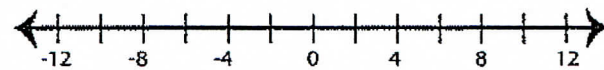
5) $3 < 2x - 11$



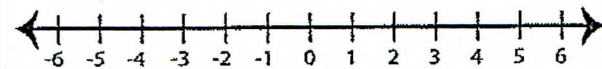
6) $\frac{x-1}{3} \leq 7$



7) $1 \geq 4x + 9$



8) $5x - 1 < 4$

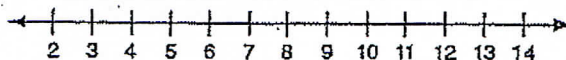
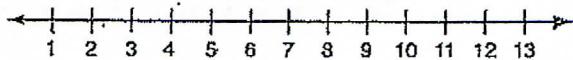


Solving Two-Step and Multi-Step Inequalities

Solve each inequality and graph the solutions.

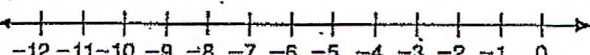
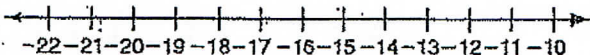
1. $-3a + 10 < -11$

2. $4x - 12 \geq 20$



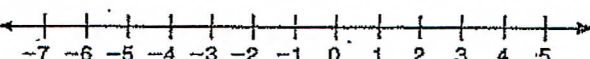
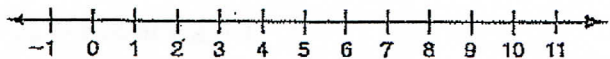
3. $\frac{2k-3}{-5} > 7$

4. $-\frac{1}{5}z + \frac{2}{3} \leq 2$



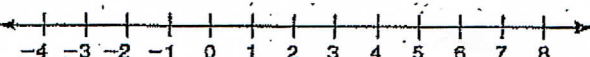
5. $6(n-8) \geq -18$

6. $10 - 2(3x+4) < 11$



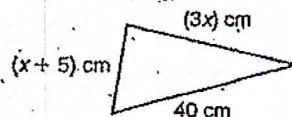
7. $7 + 2c - 4^2 \leq -9$

8. $15p + 3(p-1) > 3(2^3)$



Write and solve an inequality for each problem.

9. A full-year membership to a gym costs \$325 upfront with no monthly charge. A monthly membership costs \$100 upfront and \$30 per month. For what numbers of months is it less expensive to have a monthly membership?
10. The sum of the lengths of any two sides of a triangle must be greater than the length of the third side. What are the possible values of x for this triangle?



Solve each inequality.

9. $v + 1 > v - 6$

10. $3(x+4) \leq 3x$

11. $-2(8-3x) \geq 6x+2$

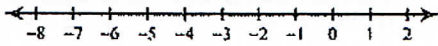
Write and solve an inequality for each problem.

12. Ian wants to promote his band on the Internet. Site A offers website hosting for \$4.95 per month with a \$49.95 startup fee. Site B offers website hosting for \$9.95 per month with no startup fee. For how many months would Ian need to keep the website for Site B to be less expensive than Site A?

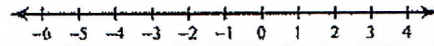
Do Odd only For this

Solve each inequality and graph its solution.

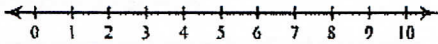
1) $3 < -5n + 2n$



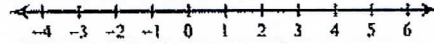
2) $6x + 2 + 6x < 14$



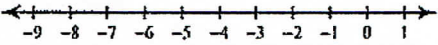
3) $-p - 4p > -10$



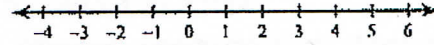
4) $18 \geq 5k + 4k$



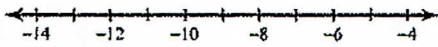
5) $9 \geq -2m + 2 - 3$



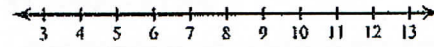
6) $-3 - 6(4x + 6) > -111$



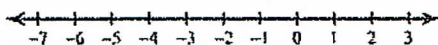
7) $6 - 4(6n + 7) \geq 122$



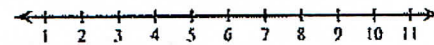
8) $-138 \geq -6(6b - 7)$



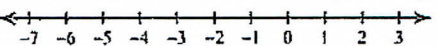
9) $167 < 6 + 7(2 - 7r)$



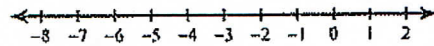
10) $5(6 + 3r) + 7 \geq 127$



11) $-8x + 2x - 16 < -5x + 7x$

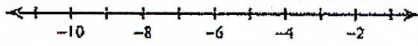


12) $-1 - 6x - 6 > -11 - 7x$

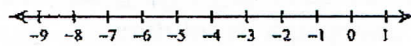


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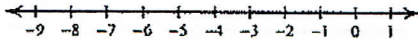
13) $a - 6 \leq 15 + 8a$



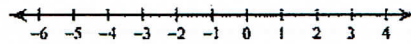
14) $13 + 2v - 8 + 6 > -7 - v$



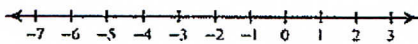
15) $-5n - 6n \leq 8 - 8n - n$



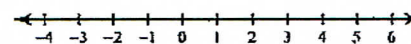
16) $-x < -x + 7(x - 2)$



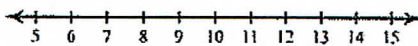
17) $-5n + 6 \geq -7(5n - 6) - 6n$



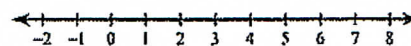
18) $3(p - 3) - 5p > -3p - 6$



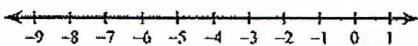
19) $28 - k \geq 7(k - 4)$



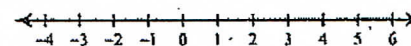
20) $28 - 7x \leq -4(-7x - 7)$



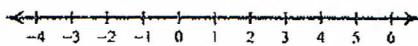
21) $-6(1 + 7k) + 7(1 + 6k) \leq -2$



22) $-2(2 - 2x) - 4(x + 5) \leq -24$



23) $3(1 - 2x) > 3 - 6x$



24) $-2(5 + 6n) < 6(8 - 2n)$

