

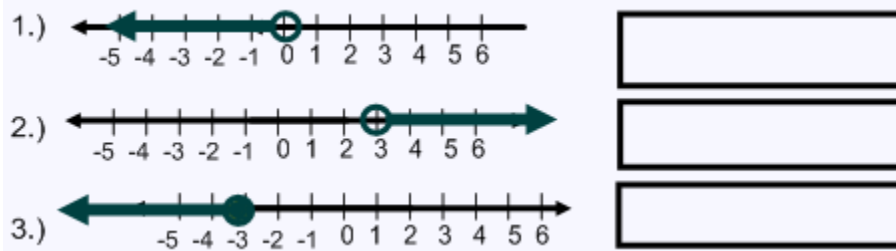
Name: _____

Date: _____

AIM: How can we practice inequalities?

DO NOW:

Write the inequality that each graph represents. You may use any variable.

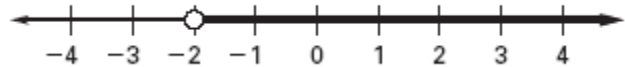


Translate the verbal sentence into an inequality. You may use any variable.

- 4.) The maximum speed limit is 70 miles per hour _____
- 5.) Tickets for the show start at \$20. _____
- 6.) Tina can type at least 50 words per minute. _____
- 7.) The quotient of a number and 5 is at least -5. _____

8.) _____ Which is a solution to the inequality graphed below?

- A. $y > -2$ C. $y \leq -2$
B. $y < -2$ D. $y \geq -2$



9.) _____ Which inequality is equivalent to $x - 5 > 15$?

- A. $x > 3$ C. $x > 10$
B. $x < -3$ D. $x > 20$

10.) _____ Given $t + 16 < 20$ which step can be used to obtain the equivalent inequality $t < 4$?

- A. Divide each side by 16 C. Subtract 20 from each side
B. Add 16 to each side D. Subtract 16 from each side

11.) _____ Which inequality represents the following statement?

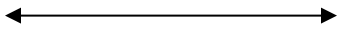
Ten more than a number w is at least fifty-seven.

- C. $w + 10 < 57$ C. $w + 10 \geq 57$
D. $w + 10 \leq 57$ D. $w + 10 > 57$

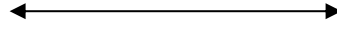
Solve and Graph

12.) $11y - 10 \leq 12$

13.) $-3x + 4 \geq 16$

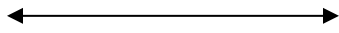


14.) $\frac{x}{3} \leq 19$

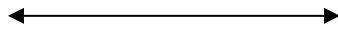


15.) $3x + 1 < 13$

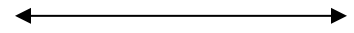
16.) $5x - 2 > -32$



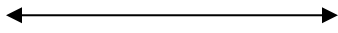
17.) $2m + 6m > 28$



18.) $3r + 2r - 6 < 24$



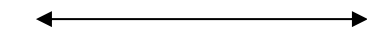
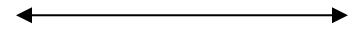
19.) $-3(2x + 6) \leq 54$



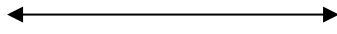
20.) $38 + 5x > 7(x + 4)$



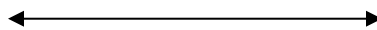
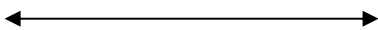
21.) $5n + 7(-6 - n) > 4(n + 3)$



22.) $-x + 16 \leq 2 + 6x$



23.) $-9 \geq -8(1 + x) - 1$



24.) A few students went to the movies. The tickets cost \$12 each. If the students could spend **no more than \$144**, what is the **maximum** amount of tickets they could purchase? **Set up an inequality and solve.**