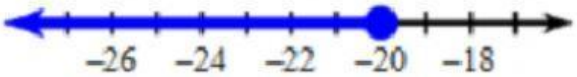
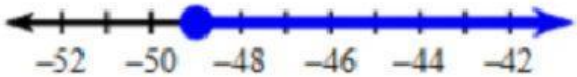
1) Solve and graph the inequality.
$77 \leq 5 + 8n$

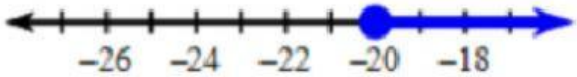
A) $n \geq -20$ :



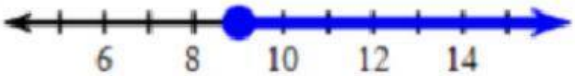

B) $n \geq -49$ :




C) $n \geq -20$ :

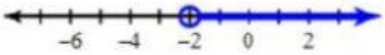



D) $n \geq 9$ :

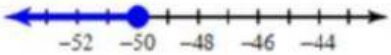



2) Solve and graph the inequality.
$7n - 1 > 76$

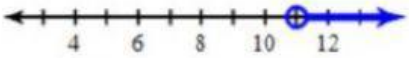
A) $n > -2$ :




B) $n > -50$ :




C) $n > 11$ :




D) $n > -41$ :

3) the Solution for this inequality : $\frac{x}{-4} + 2 > 7$

is $x < -20$,

is this true or false

- true
- false



LIVEWORKSHEETS

4) Do I need to flip my sign?
$-3x \geq 12$

- Yes, because I'll be dividing by a negative number
- No, because you never flip the sign.

5) Solve $8 + 4x > 24$

- $x > 4$
- $x > 8$
- $x > 64$
- $x < 8$

6) Solve multi step inequalities : $3 < -5n + 2n$

- $n < 1$
- $n > 1$
- $n < -1$
- $n > -1$


LIVEWORKSHEETS

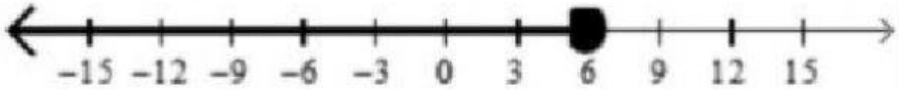
**7)** Solve: $7(x + 3) < 5x + 13$

- ◯ $x > 17$
- ◯ $x<-4$
- ◯ $x < 17$
- ◯ $x>-4$

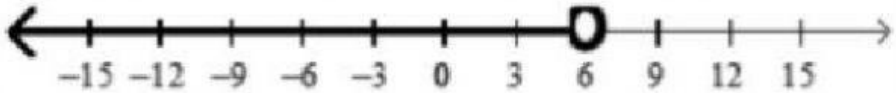
**8)** Pick the correct letter for:

$x - 14 < -8$

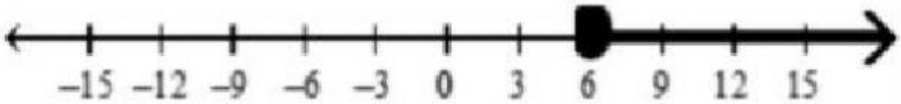
**A.**



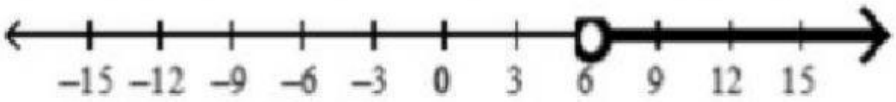

**B.**




**C.**




**D.**






LIVEWORKSHEETS

9)

Solve this multi step inequalities

$$2(a-8) \geq -2a$$

- a ≥ 4
- a ≥ -1
- a ≤ - 2
- No solution

10) When graphing an inequality, you use an open dot for which symbol?

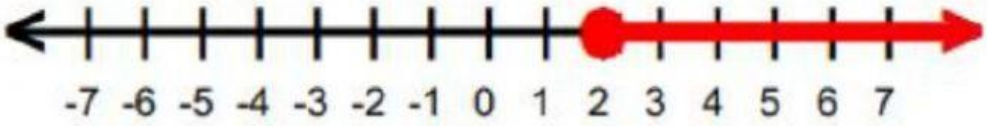
- <, >
- ≤, ≥



LIVEWORKSHEETS

12) Match the inequality to the picture given.

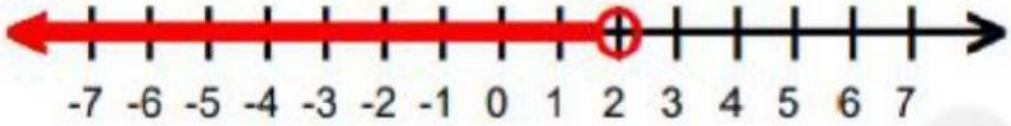
A) $x \geq 2$




B) $x < 2$

C) $x \leq 2$

13) Write the inequality for the graph up above.




A) $s \geq 2$

B) $s < 2$

C) $s > 2$

14) Solve the inequality. $-15 < 5b$

A) $b > -3$

B) $b > 1/3$

C) $b < -3$



LIVEWORKSHEETS