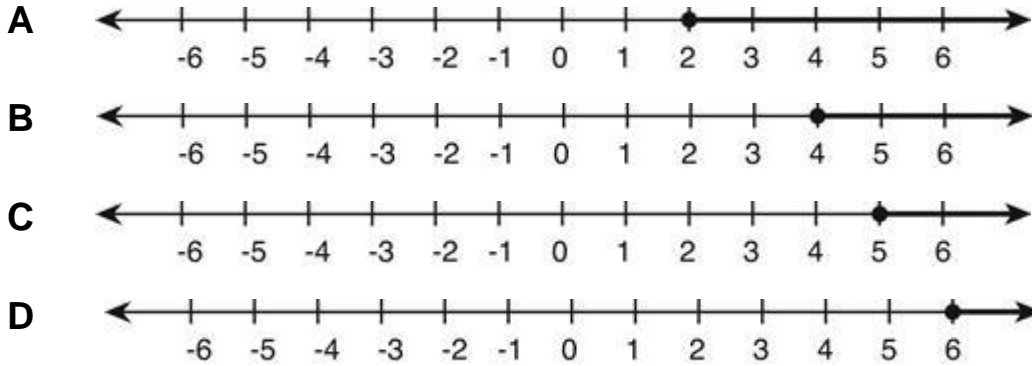


Name: _____ Class: _____

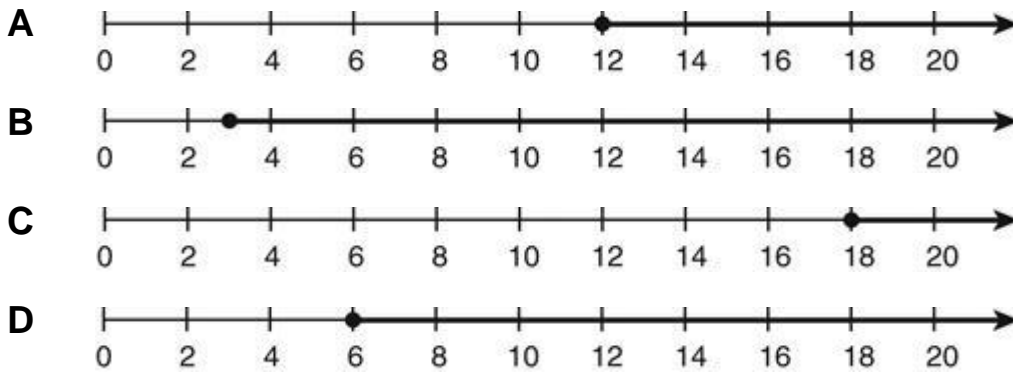
1. Which of the following number lines represents the solution to this inequality?

$$2x + 2 \geq 10$$



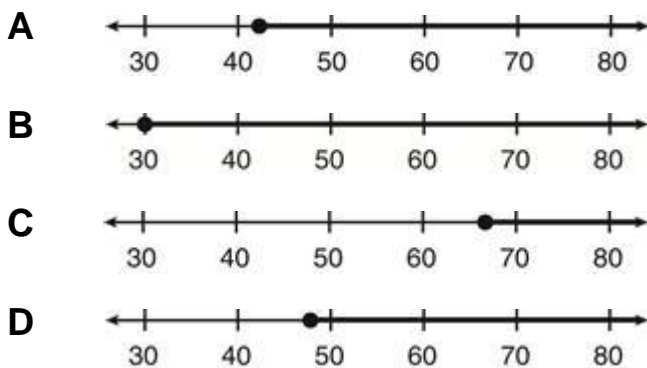
2. Which number line represents the graph of the solution to this inequality?

$$27 + 4.5x \geq 81$$



3. Which number line represents the solution to the inequality below?

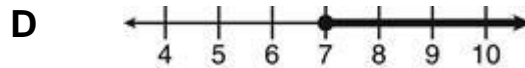
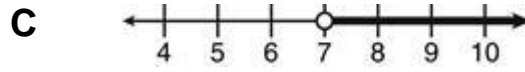
$$5x + 90 \geq 240$$



4. If Andrea does 5 more hours of community service, she will have at least the 12 hours of service required by her school. This can be represented by the inequality below, where x stands for the number of hours of community service that Andrea has already done.

$$x + 5 \geq 12$$

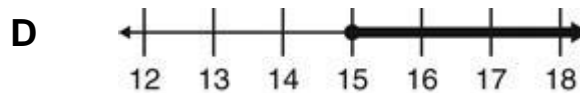
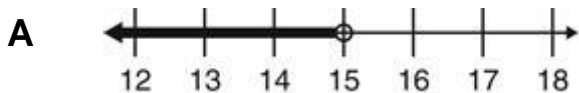
Which number line best represents all values of x that satisfy this inequality?



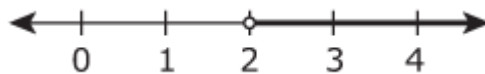
5. Mrs. Opal teaches 30-minute piano lessons for \$25 per lesson. Each piano student also pays a \$75 registration fee at the beginning of each semester. The inequality below can be used to find x , the number of lessons each student needs to take for Mrs. Opal to earn more than \$450 per student in one semester.

$$25x + 75 > 450$$

Which number line represents all possible values of x ?



6. The number line shows the solution to the inequality $3x - 2 \square 4$.



Based on the number line, which symbol should be placed in the box to complete the inequality?

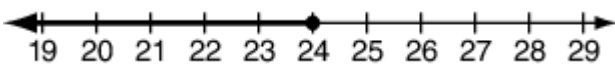
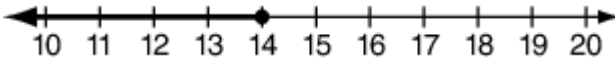
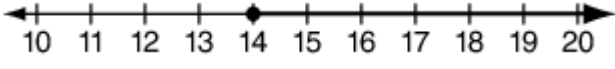
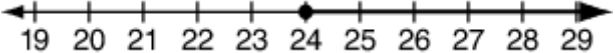
A \leq

C \geq

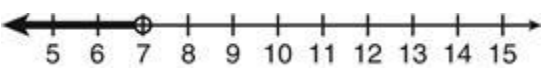
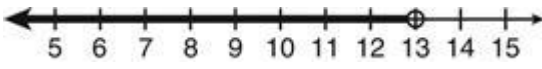
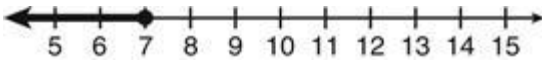
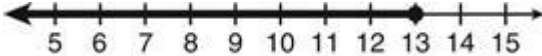
B $<$

D $>$

7. The amount Max earned last week can be modeled by the expression $25 + 5i \geq 95$, where i is the number of items he sold. Which number line shows how many items he could have sold last week?

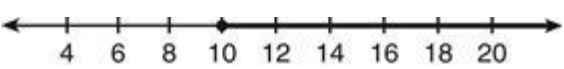
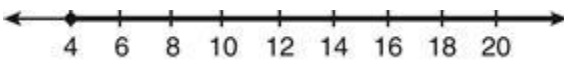
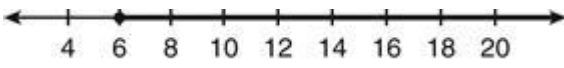
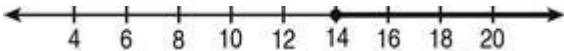
- A 
- B 
- C 
- D 

8. Which number line represents the solution of $m + 3 < 10$?

- A 
- B 
- C 
- D 

9. Which of the following number lines represents the solution to the inequality below?

$$40 + 10x \geq 100$$

- A 
- B 
- C 
- D 

10. Ohio Skate charges a flat fee of \$60 for skating parties plus \$6 per person. Matteo can spend no more than \$126 on his skating party. Which number line represents the number of people Matteo can invite to his skating party without exceeding his spending limit?

