

TEST NAME: CFA #2 Review (Calculator Inactive)
TEST ID: 3496290
GRADE: 07 - Seventh Grade
SUBJECT: Mathematics
TEST CATEGORY: School Assessment

01/13/20, CFA #2 Review (Calculator Inactive)

Student: _____

Class: _____

Date: _____

1. What is the value of x if $5x + 55 = 35$?

- A. -20
- B. -4
- C. 18
- D. 90

2. What value of x makes the equation $6x + 12 = 42$ true?

- A. 2
- B. 5
- C. 8
- D. 9

3. What is the value of x in the equation $24 - 2x = 16$?

- A. 4
- B. 8
- C. 12
- D. 20

4. Solve for x : $-15 + 3x = 7$.

- A. $-2\frac{2}{3}$
- B. $-\frac{7}{12}$
- C. $2\frac{2}{3}$
- D. $7\frac{1}{3}$

5. Which value for x satisfies the equation $3x - 6 = 15$?

- A. 3
- B. 7
- C. 18
- D. 27

6. What are all the values of x that make the inequality $8 - 3x < 20$ true?

- A. $x > -4$
- B. $x > 15$
- C. $x < -4$
- D. $x < 15$

7. If $3x + 4 \leq -11$, what is the solution for x ?

- A. $x \geq -5$
- B. $x \leq -5$
- C. $x \geq -18$
- D. $x \leq -18$

8. What is the solution for x if $-4x + 6 > 10$?

- A. $x < 8$
- B. $x > 8$
- C. $x < -1$
- D. $x > -1$

9. If $7 - 2x \geq 15$, what is the solution for x ?

- A. $x \geq 10$
- B. $x \geq -4$
- C. $x \leq 10$
- D. $x \leq -4$

10. What are all possible values of x if

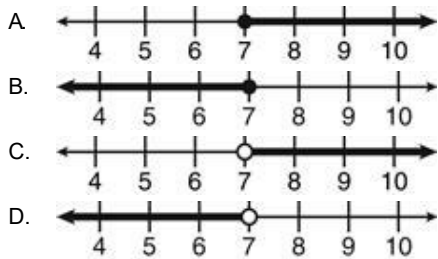
$$\frac{2}{3}x + 3 > 9?$$

- A. $x > 4$
- B. $x > 8$
- C. $x > 9$
- D. $x > 18$

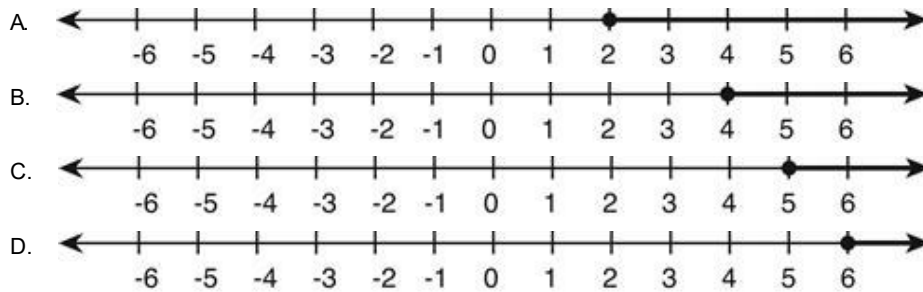
11. If Andrea does 5 more hours of community service, she will have at least the 12 hours of service required by her school. This can be represented by the inequality below, where x stands for the number of hours of community service that Andrea has already done.

$$x + 5 \geq 12$$

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



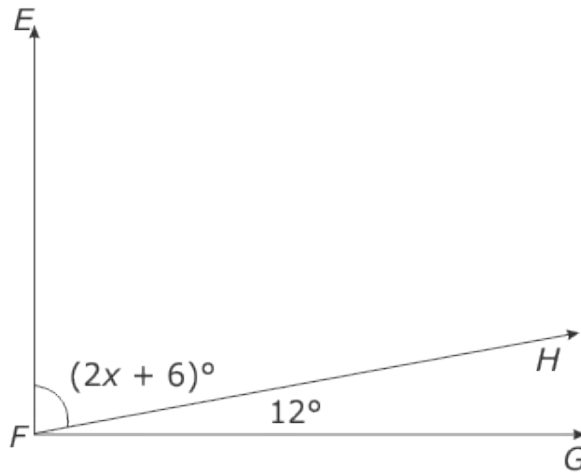
12. Which of the following number lines represents the solution to the inequality $2x + 2 \geq 10$?



13. If $3m + 1 > 7$, what is one possible value for m ?

- A. 3
 B. 2
 C. 1
 D. 0

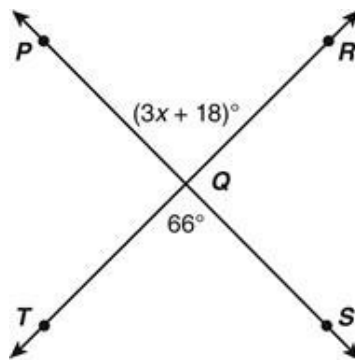
14. In the image below, $\angle EFG$ is a right angle.



What is the value of x ?

- A. 78
- B. 72
- C. 42
- D. 36

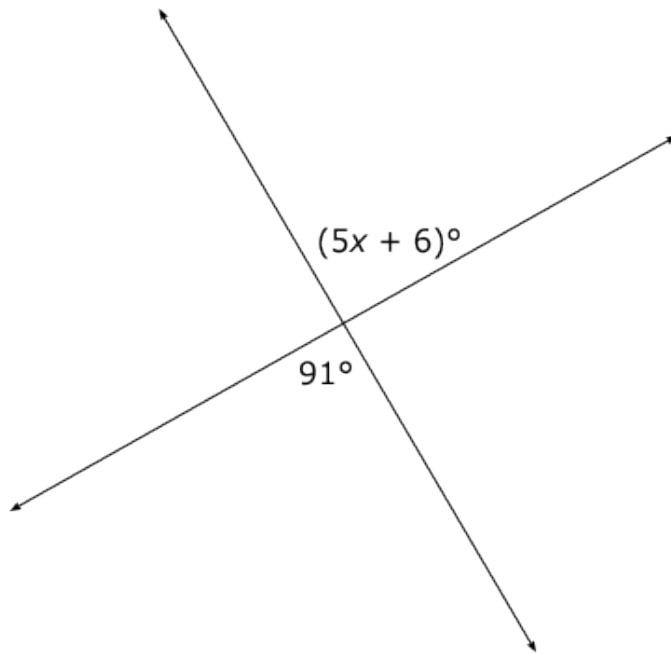
15. In the figure below, $\angle PQR$ and $\angle TQS$ are vertical angles.



What is the value of x ?

- A. 16
- B. 32
- C. 48
- D. 66

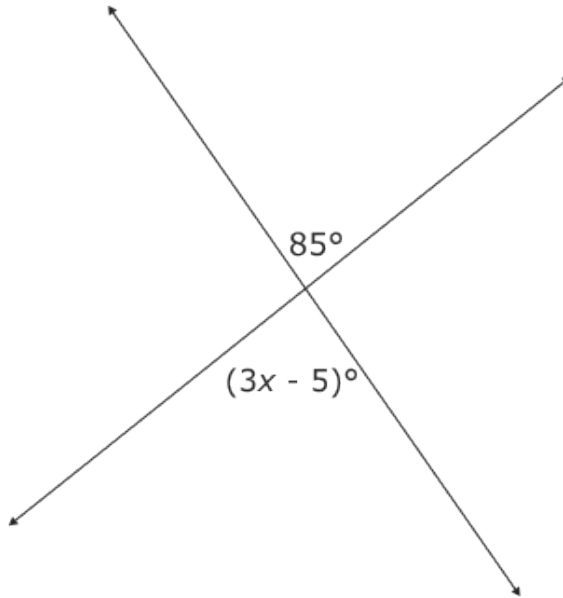
16. Two lines intersect in the figure below.



What is the value of x ?

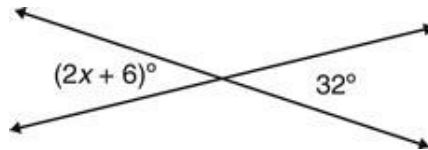
- A. 17
- B. 20
- C. 24
- D. 89

17. What is the value of x in the figure below?



- A. 27
- B. 30
- C. 32
- D. 95

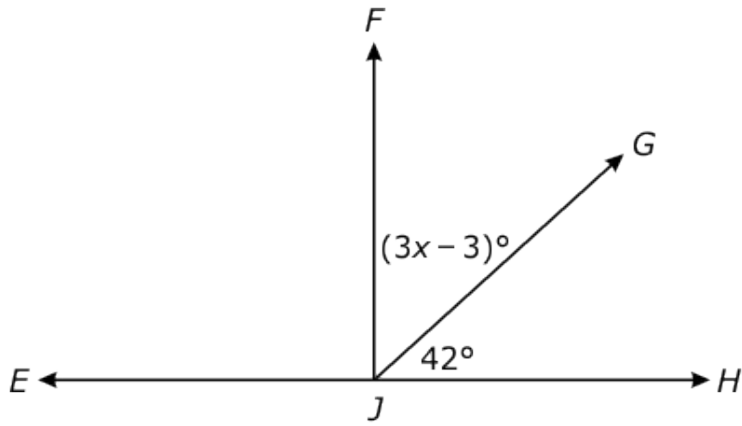
18. Two lines intersect creating angles with the measures shown below.



What is the value of x ?

- A. 13
- B. 19
- C. 26
- D. 52

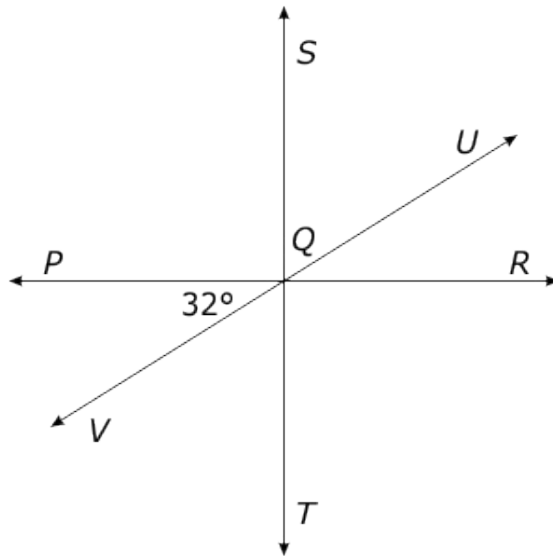
19. In the figure below, line EH and line segment FJ are perpendicular.



What is the value of x ?

- A. 13
- B. 15
- C. 17
- D. 19

20. Line ST is perpendicular to line PR .



What is the measure of $\angle SQU$?

- A. 32°
- B. 58°
- C. 90°
- D. 148°