

Unit 3 - Inequalities Practice Test

Name: _____

Date: _____

1. What is the solution to the inequality below?

$$12x > 5(x - 2)$$

- A. $x > -\frac{2}{7}$ B. $x < -\frac{2}{7}$
C. $x > -\frac{10}{7}$ D. $x < -\frac{10}{7}$

2. What is the solution to the inequality below?

$$-3x - 1 \leq 5$$

- A. $x \leq -2$ B. $x \geq -2$
C. $x \leq -\frac{4}{3}$ D. $x \geq -\frac{4}{3}$

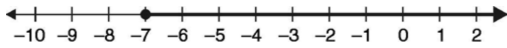
3. Chris won at most 300 tickets at an arcade game. He spent 128 tickets on a ball and the rest on gum. Each piece of gum was 25 tickets. Which inequality can be used to determine the greatest number of pieces of gum Chris could have purchased?

- A. $128 + 25g \leq 300$ B. $128 + 25g \geq 300$
C. $128 - 25g \leq 300$ D. $128 - 25g \geq 300$

4. When John bought his new computer, he purchased an online computer help service. The help service has a yearly fee of \$25.50 and a \$10.50 charge for each help session a person uses. If John can only spend \$170 for the computer help this year, what is the maximum number of help sessions he can use this year?

- A. 4 sessions B. 12 sessions
C. 13 sessions D. 14 sessions

5. Use the graph below to answer the question that follows.

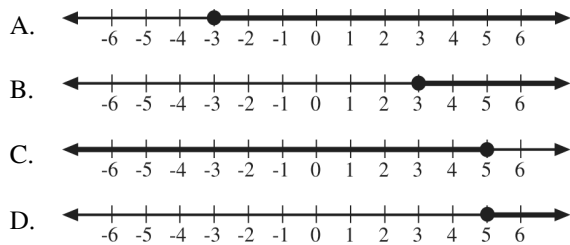


This graph is the solution set for which inequality?

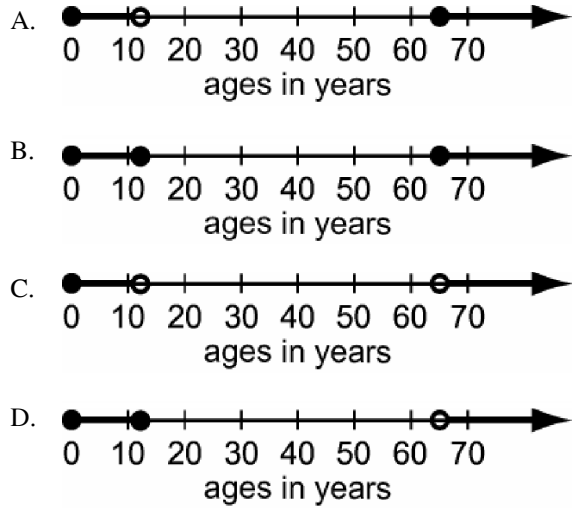
- A. $x - 14 > 7$ B. $x - 7 \geq 14$
 C. $2x \geq -14$ D. $14x \geq -2$

6. Which graph below represents the solution to the inequality below?

$$2(2x - 6) \geq x + 3$$



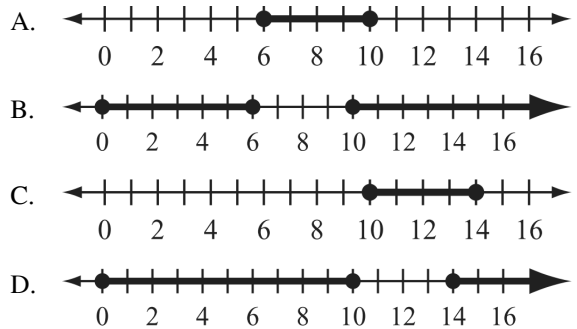
7. You can receive a reduced ticket price at the local movie theater if you are 65 or older, or if you are younger than 12. Which graph displays this information?



8. An inequality is shown below.

$$8 \leq x + 2 \leq 12$$

Which of the following graphs represents the solution of the inequality?



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1.
Answer: C
Points: 1
2.
Answer: B
Points: 1
3.
Answer: A
Points: 1
4.
Answer: C
Points: 1
5.
Answer: C
Points: 1
6.
Answer: D
Points: 1
7.
Answer: A
Points: 1
8.
Answer: A
Objective: MA 10.P.6
Points: 1