

Chapter 8 Test A

Write the word sentence as an inequality.

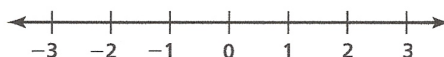
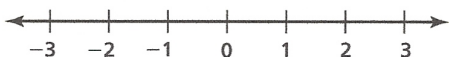
1. A number n is at least 10. 2. 15 is more than a number x .
 3. Twice a number a is less than 3. 4. A number s is no more than 18.

Tell whether the given value is a solution of the inequality.

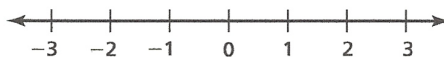
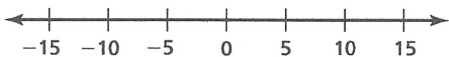
5. $2x \leq 10$; $x = 5$ 6. $n - 4 > 8$; $n = 10$

Graph the inequality on the number line.

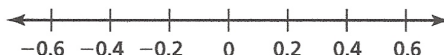
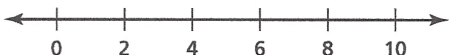
7. $m \leq 0$ 8. $n > 1$



9. $x < 10$ 10. $a \geq -2$



11. $w > 6$ 12. $t \leq 0.2$



Answers

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. See left.

8. See left.

9. See left.

10. See left.

11. See left.

12. See left.

13. _____

14. a. _____

b. See left.

13. A disc will hold up to 62 minutes of music. The first 8 songs are 24 minutes long altogether. Write and solve an inequality to find how many more minutes of music you could add to the disc.

14. An acting improvisation class divides into 6 teams that each have at most 4 students.

a. Write and solve an inequality to represent the number of students in the class.

b. Each team has at least two students. Could there be 20 students in the class? Explain why or why not.