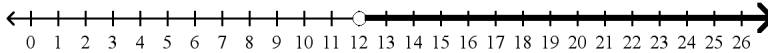




- \_\_\_\_\_ 6. Write an inequality that represents the graph below if the endpoint is moved 5 units to the left.



- a.  $x > 5$   
 b.  $x > 7$   
 c.  $x > 17$   
 d.  $x > 12$
- \_\_\_\_\_ 7. Which is the solution to the inequality represented by "half a number decreased by four is less than or equal to one"?
- a.  $n \leq -1.5$   
 b.  $n \leq 2.5$   
 c.  $n \leq -6$   
 d.  $n \leq 10$
- \_\_\_\_\_ 8. Write an inequality for the situation.  
 There are at least 38 women in the house.
- a. number of women  $> 38$   
 b. number of women  $< 38$   
 c. number of women  $\leq 38$   
 d. number of women  $\geq 38$
- \_\_\_\_\_ 9. Write an inequality for the situation.  
 At most 37 papers are on the table.
- a. number of papers  $< 37$   
 b. number of papers  $\geq 37$   
 c. number of papers  $> 37$   
 d. number of papers  $\leq 37$
- \_\_\_\_\_ 10. There are at least 89 visitors to the museum each day. Which inequality represents the number of visitors to the museum?
- a.  $v < 89$   
 b.  $v \geq 89$   
 c.  $v > 89$   
 d.  $v \leq 89$

### Short Answer

- Tell whether the value of  $m$  is a solution to the inequality  $2m > 7$ .  
 $m = 1$
- Solve for  $h$  if  $6h = 36$ .
- Solve  $\frac{8}{11}y = 6$ . Write the solution in simplest form.
- The total snowfall for two snowstorms in Boudier County was 37 inches. The first snowstorm was 19 inches. How much snow fell in the second snowstorm? Write an equation for the second snowstorm. Solve the equation.

## Unit 7 RETest Answer Section

### MULTIPLE CHOICE

1. ANS: D                   PTS: 1                   NAT: NT.CCSS.MTH.10.6.6.EE.5  
DOK: DOK 1
2. ANS: C                   PTS: 1                   REF: MLC10052  
NAT: NT.CCSS.MTH.10.6.6.EE.5 | NT.CCSS.MTH.10.6.6.EE.7 | NT.CCSS.MTH.10.8.8.EE.7  
STA: NC.NCES.MTH.09.7.7.A.1.1           LOC: NCTM 6-8.ALG.2.d  
TOP: Equations and Mental Math       KEY: whole | divide | multiply | solve | equation  
DOK: DOK 1
3. ANS: D                   PTS: 1                   NAT: NT.CCSS.MTH.10.6.6.EE.6  
KEY: write equation                   DOK: DOK 2
4. ANS: B                   PTS: 1                   NAT: NT.CCSS.MTH.10.6.6.EE.7  
DOK: DOK 1
5. ANS: D                   PTS: 1                   NAT: NT.CCSS.MTH.10.6.6.EE.8  
DOK: DOK 3
6. ANS: B                   PTS: 1                   NAT: NT.CCSS.MTH.10.6.6.EE.8  
DOK: DOK 3
7. ANS: D                   PTS: 1                   REF: M2.07.EN.ST.07  
NAT: NT.CCSS.MTH.10.6.6.EE.8       KEY: inequality | solve  
DOK: DOK 1
8. ANS: D                   PTS: 1                   REF: 9a326c0d-9631-11dd-8a40-001185f11039  
OBJ: Writing Inequalities           NAT: NT.CCSS.MTH.10.6.6.EE.8  
LOC: MTH.C.10.08.01.005           TOP: Inequalities   KEY: inequality  
DOK: DOK 1
9. ANS: D                   PTS: 1                   REF: 9a32931d-9631-11dd-8a40-001185f11039  
OBJ: Writing Inequalities           NAT: NT.CCSS.MTH.10.6.6.EE.8  
LOC: MTH.C.10.08.01.005           TOP: Inequalities   KEY: inequality  
DOK: DOK 1
10. ANS: B                   PTS: 1                   NAT: NT.CCSS.MTH.10.6.6.EE.8  
DOK: DOK 1

### SHORT ANSWER

1. ANS:  
no  
  
PTS: 1                   REF: M2.07.EN.CTA.34                   NAT: NT.CCSS.MTH.10.6.6.EE.5  
KEY: inequalities   DOK: DOK 1
2. ANS:  
 $h = 6$   
  
PTS: 1                   NAT: NT.CCSS.MTH.10.6.6.EE.7           DOK: DOK 2

3. ANS:

$$y = 8\frac{1}{4}$$

PTS: 1

NAT: NT.CCSS.MTH.10.6.6.EE.7

DOK: DOK 2

4. ANS:

$$19 + s = 37; s = 18$$

PTS: 1

NAT: NT.CCSS.MTH.10.6.6.EE.6 | NT.CCSS.MTH.10.6.6.EE.7

DOK: DOK 2