### **Unit 7 RETest**

# Multiple Choice

Identify the choice that best completes the statement or answers the question.

1. The set {5, 6, 8, 9, 10} is part of a solution set for which inequality?

c. c + 18 > 24

a. c + 14 < 24b.  $c + 18 \ge 24$ 

d.  $c + 14 \le 24$ 

2. Determine which number is a solution of the equation.

 $q \div 6 = 17$ 

95 a.

b. 108

c. 102

109 d.

3. Carlos earned 57 points on one section of a test and 26 points on the other section. Which equation expresses his total score?

a. 57 - 26 = t

c. 57 - t = 26

b. 26 + t = 57

d. 57 + 26 = t

4. Solve 7.2h = 57.6.

a. h = 0.8

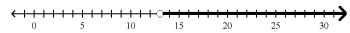
c. h = 50.4

b. h = 8

h = 80

5. Haley made more than 6 ounces of trail mix. Jalen made 13 more ounces of trail mix than Haley did. Write an inequality to represent the number of ounces of trail mix that Jalen could have made. Graph the inequality on a number line. Could 10 be the number of ounces of trail mix Jalen made?

a. J > 13;



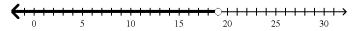
No; 10 is not greater than 13.

b. J > 6;



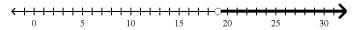
Yes; 10 is greater than 6.

c. *J* < 19;



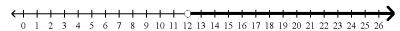
Yes; 10 is less than 19.

d. J > 19;



No; 10 is not greater than 19.

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.  $n \le -1.5$
- b.  $n \le 2.5$
- c.  $n \leq -6$
- d.  $n \le 10$

8. Write an inequality for the situation.

There are at least 38 women in the house.

- a. number of women > 38
- c. number of women  $\leq 38$
- b. number of women < 38

d. number of women  $\ge 38$ 

9. Write an inequality for the situation.

At most 37 papers are on the table.

a. number of papers < 37

c. number of papers > 37

b. number of papers  $\ge 37$ 

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

c. v > 89

b.  $v \ge 89$ 

d.  $v \le 89$ 

#### **Short Answer**

- 1. Tell whether the value of m is a solution to the inequality 2m > 7. m = 1
- 2. Solve for h if 6h = 36.
- 3. Solve  $\frac{8}{11}y = 6$ . Write the solution in simplest form.
- 4. The total snowfall for two snowstorms in Bounder 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 DOK: DOK 1	: 1	NAT:	NT.CCSS.MTH.10.6.6.EE.5
2.	ANS: C PTS			MLC10052
	STA: NC.NCES.MTH.10.0.0.EE.3   NT STA: NC.NCES.MTH.09.7.7.A.1.1 TOP: Equations and Mental Math			MTH.10.6.6.EE.7   NT.CCSS.MTH.10.8.8.EE.7
				whole   divide   multiply   solve   equation
	DOK: DOK 1	itai iviatii	KL1.	whole   divide   multiply   solve   equation
3.	ANS: D PTS	: 1	NAT:	NT.CCSS.MTH.10.6.6.EE.6
	KEY: write equation			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	0.6.6.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

## SHORT ANSWER

1. ANS:

DOK: DOK 1

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:

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

NAT: NT.CCSS.MTH.10.6.6.EE.6 | NT.CCSS.MTH.10.6.6.EE.7 PTS: 1

DOK: DOK 2