

## review for district test on 9/24/19

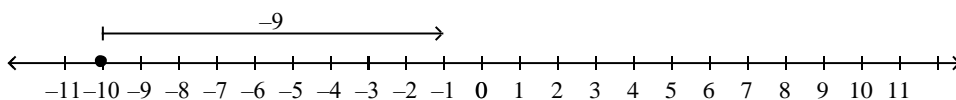
### Multiple Choice

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

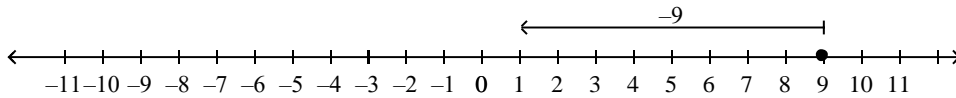
- \_\_\_ 1. The total cost to rent a row boat is \$10 times the number of hours the boat is used. Write an equation to model this situation if  $c$  = total cost and  $h$  = number of hours.  
a.  $c = 10h$                       b.  $c = \frac{h}{10}$                       c.  $c - 10 = h$                       d.  $h = 10c$
- \_\_\_ 2. An equilateral triangle has three sides of equal length. What is the equation for the perimeter of an equilateral triangle if  $P$  = perimeter and  $s$  = length of a side?  
a.  $s = 3P$                       b.  $P = 3s$                       c.  $P = 3 + s$                       d.  $P = 3(s + s + s)$
- \_\_\_ 3. When simplifying an expression, you \_\_\_ perform operations inside grouping symbols first.  
a. always                      b. sometimes                      c. never
- \_\_\_ 4. Evaluate the expression  $(ab)^2$  for  $a = 10$  and  $b = 3$ .  
a. 90                      b. 900                      c. 81                      d. 60

### Simplify the expression.

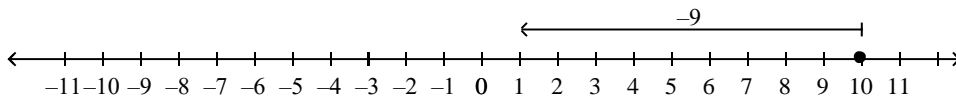
- \_\_\_ 5.  $-6 + 5$   
a. -1                      b. 11                      c. -11                      d. 1
- \_\_\_ 6.  $-3 + 8$   
a. 11                      b. 5                      c. -11                      d. -5
- \_\_\_ 7.  $|-20 - 18|$   
a. 38                      b. -38                      c. -37                      d. 37
- \_\_\_ 8.  $\frac{1}{2}(-20m + 44)$   
a.  $-10m + 176$                       c.  $-10m + 22$   
b.  $-80m + 22$                       d.  $-10m + 44$
- \_\_\_ 9.  $(-4 - c)(-1)$   
a.  $-4 - c$                       b.  $4 - c$                       c.  $4 + c$                       d.  $-4 + c$
- \_\_\_ 10. The opposite of a negative number is \_\_\_ negative.  
a. always                      b. sometimes                      c. never
- \_\_\_ 11. A mountain climber ascends a mountain to its peak. The peak is 14,360 ft above sea level. The climber then descends 350 ft to meet a fellow climber. Find the climber's elevation above sea level after meeting the other climber.  
a. 10,860 ft                      b. 14,710 ft                      c. -14,010 ft                      d. 14,010 ft
- \_\_\_ 12. Simplify  $10 - 9$  using a number line.



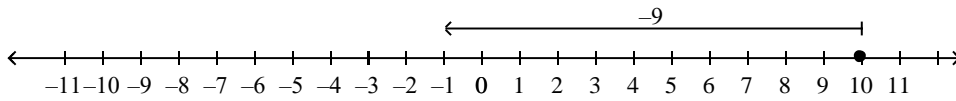
b.



c.



d.



- \_\_\_ 13. Evaluate  $b - 2a - c$  for  $a = 3$ ,  $b = 4$ , and  $c = -1$ .  
a. 9                      b. 0                      c. -3                      d. -1
- \_\_\_ 14. The product of two negative numbers is \_\_\_ positive.  
a. always                      b. sometimes                      c. never
- \_\_\_ 15.  $-32 \div (-8)$   
a. -4                      b. 4                      c. 256                      d. -256
- \_\_\_ 16.  $15z - 4z$   
a.  $19z$                       b.  $-11z$                       c. 19                      d.  $11z$

**Name the property the equation illustrates.**

- \_\_\_ 17.  $0 + x = x$   
a. Identity Property of Addition  
b. Multiplication Property of 0  
c. Commutative Property of Addition  
d. Inverse Property of Multiplication

