

review for district test on 9/24/19 Version 2

Multiple Choice

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

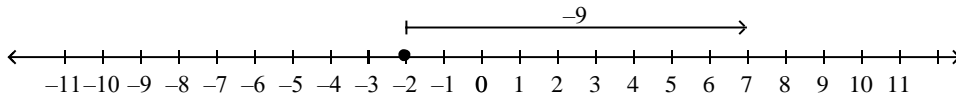
- _____ 1. The total cost to rent a row boat is \$20 times the number of hours the boat is used. Write an equation to model this situation if c = total cost and h = number of hours.
a. $c = 20h$ b. $c = \frac{h}{20}$ c. $h = 20c$ d. $c - 20 = h$
- _____ 2. An equilateral triangle has three sides of equal 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 $a = 6$ and $b = 5$.
a. 150 b. 900 c. 625 d. 60

Simplify the expression.

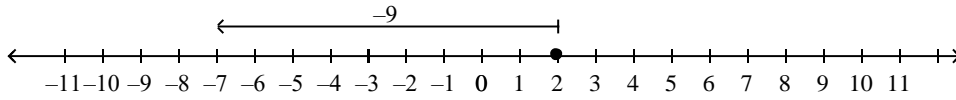
- _____ 5. $-9 + 5$
a. -4 b. 4 c. 14 d. -14
- _____ 6. $-5 + 7$
a. 2 b. -12 c. -2 d. 12
- _____ 7. $|4 - 8|$
a. 4 b. -3 c. 3 d. -4
- _____ 8. $\frac{2}{5}(40m + 45)$
a. $16m + 45$ c. $16m + 90$
b. $80m + 18$ d. $16m + 18$
- _____ 9. $(2 - c)(-1)$
a. $-2 + c$ b. $-2 - c$ c. $2 + c$ d. $2 - c$
- _____ 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 11,320 ft above sea level. The climber then descends 370 ft to meet a fellow climber. Find the climber's elevation above sea level after meeting the other climber.
a. 10,950 ft b. 7,620 ft c. 11,690 ft d. $-10,950$ ft

___ 12. Simplify $2 - 9$ using a number line.

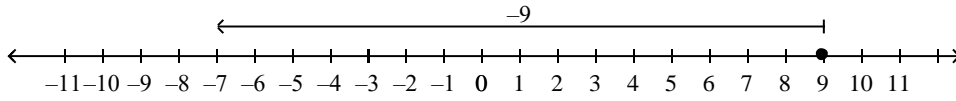
a.



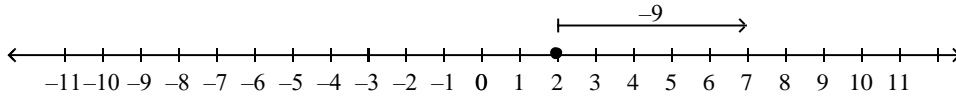
b.



c.



d.



___ 13. Evaluate $b - 2a - c$ for $a = 3$, $b = 9$, and $c = -4$.

- a. 11 b. -1 c. 2 d. 7

___ 14. The product of two negative numbers is ____ positive.

- a. always b. sometimes c. never

___ 15. $72 \div (-9)$

- a. 648 b. 8 c. -648 d. -8

___ 16. $4z - 3z$

- a. z b. $-z$ c. 7 d. $7z$

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

