Mathematics

Power Standard 8:1

Summative Test

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_\_\_

1. Identify the distributive property:
2. 3(4+6)=3(4)+3(6)
3. 2(8+3)=28+23
4. (2·3)·5=2·(3·5)
5. 4+0=0+4
6. Solve for x: x = 12+(2·6)÷3
7. -16
8. 8
9. 28
10. 16
11. Translate into an algebraic expression. The product of nine and two, increased by six.

A. ()+6

B. 9(2+6)

C. (9·2)+6

D. (9+6)·(2+6)

1. What is the first step when solving the following equation?

x= 12 ÷4 + 8 ·22 - 1

1. 22
2. 4 + 8
3. 12 ÷4
4. 8 – 1
5. Use two of the following three numbers to create a math problem using the identity property for multiplication: 10, 0, 1

Show your work below.

Answer \_\_\_\_\_\_\_\_\_\_\_\_\_

1. Identify the associative property for addition:
2. ( 3 ·9 ) · 4 = 3 · (9 · 4 )
3. 3 ( 9 +2) = 3 · 9 + 3 · 2
4. 3 + 0 = 3
5. (2 + 9 ) + 1 = 2 + ( 9 + 1 )
6. Mike went to the store to buy jeans. Each pair costs $22. If he buys 2 pair, he can get the second pair for half price. How much will he save per pair if he buys 2 pair?
7. $16.50
8. $8.25
9. $5.50
10. $33.00
11. Two siblings agreed to split the cost of a television and a DVD player evenly. They spent a total of $355.00 on the television and $85.00 on the DVD player. Find the amount that each sibling paid.
12. $420.00
13. $270.00
14. $135.00
15. $210.00
16. Use two of the following three numbers to create a math problem using the commutative property for multiplication: 5, 2, 9

Show your work below.

Answer \_\_\_\_\_\_\_\_\_\_\_\_\_

1. Solve for x: x = 6 + 2 (6 – 4 )2 ÷ 2

Show steps.

Show your work below.

Answer \_\_\_\_\_\_\_\_\_\_\_\_\_

11. The Zandalia Zoo uses 214,964 kilograms of meat per year. If the meat costs $2.53 per kilogram, how much does the meat cost per week?

Show your work below.

Answer \_\_\_\_\_\_\_\_\_\_\_\_\_

1. You borrow $12 from your brother. Then you pay him back $7. If you pay the remainder of what you still owe him in two equal installments, how much are each of the two installments?

Show your work below.

Answer \_\_\_\_\_\_\_\_\_\_\_\_\_

1. Using all the following numbers; 8, 3, 2, how can Susan illustrate one difference between distributive and associative properties?

Show your work below.

Answer \_\_\_\_\_\_\_\_\_\_\_\_\_

1. Write the following verbal sentence as an algebraic equation:

The quotient of 56 and a number is 7

Write your answer below.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Answer \_\_\_\_\_\_\_\_\_\_\_\_\_

1. Solve. x – 2 = -9

Show your work below.

Answer: \_\_\_\_\_\_\_\_\_\_\_

1. Solve. Show your work. x / 5 = -4

Show your work below.

Answer: \_\_\_\_\_\_\_\_\_\_\_

1. Tom borrowed $115.00 from his father to buy clothes. He plans to pay $23 a month toward his debt. Write and solve a multiplication equation to find how many months it will take to repay his father.

Show your work below.

Answer: \_\_\_\_\_\_\_\_\_\_\_

1. There were 68 people remaining after 15 left a dance. Write and solve a subtraction equation to find the number of people who were originally at the dance.

Show your work below.

Answer: \_\_\_\_\_\_\_\_\_\_\_

Need answer box