Mathematics

Power Standard 8:1

Post-Formative Test

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

1. Identify the associative property for multiplication:
2. (2+3)a=2a+3a
3. (2∙3)∙4=2∙(3∙4)
4. 3∙6=6∙3
5. 15=3∙5
6. Solve for x: x = 12+6²·3-11
7. 133
8. 961
9. 109
10. -384
11. Translate into an algebraic expression. Three more than the quotient of nine and three.

A. 3+($\frac{9}{3}$)

B. 3+(9-3)

C. 3+($\frac{3}{9}$)

D. 3·($\frac{9}{3}$)

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

x=12 + (8+2)2÷4 + 6

1. 12 ÷4
2. 12 + 6
3. 4 + 6
4. 8 +2
5. Use two of the following three numbers to create a math problem using the identity property for addition: 1, 0, 8

Show your work below.

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

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

1. Identify the commutative property for addition:
2. 4 · 9 = 9 · 4
3. 3 + -3 = 0
4. (9 + 5) + 6 = 6 + (9 + 5)
5. (6 + 4) + 2 = 6 + (4 + 2)
6. Mr. Anderson’s math classes are going on a field trip. A tour guide is needed for each group of six students. His classes have 28 students, 35 students, 22 students, 33 students, and 20 students.
7. 23
8. 138
9. 5
10. 22
11. Kay was shopping for a new cellular phone. Plan A costs $40 for 400 free minutes plus $0.10 per minute after that. If Kay uses 600 minutes in a month, how much will her bill be?
12. $20
13. $420
14. $60
15. $80
16. Use the following three numbers to create a math problem using the associative property for multiplication: 2, 4, 7

Show your work below.

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

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

1. Solve for x: x = 15 + (7 – 2)2 + 2 · 3

 Show steps.

Show your work below.

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

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

1. The sum of three numbers is 173. If the smallest number is 23, could the largest number be 62?

Yes           No

Explain your answer below.

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

1. Raymond must buy enough paper to print 28 copies of a report that contains 64 sheets of paper. Paper is only available in packages of 500 sheets. How many whole packages of paper will he need to buy to do the printing?

Show your work below.

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

Need answer box

1. Using all the following numbers; 6,7,9, how can Susan illustrate one

 difference between commutative and associative properties?

Show your work below.

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

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

***15 points is 5 fewer than Mike scored last game.***

Write your answer here:

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

1. Solve. Show your work. 3 x = - 12

Show your work below.

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

1. Solve. Show your work. 8 + x = -15

Show your work below.

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

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

1. You buy a TV for $500. You pay $200 and then pay the remainder at a later date. Write and solve an addition equation to find what amount was paid later.

Show your work below.

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

1. Tickets for the school dance cost $5 each. Write and solve a multiplication equation which shows the number of tickets that must be sold in order to raise $530.

Show your work below.

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