Mathematics

Power Standard 8:2

Summative Test

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

1. -123 + n =0
2. -123
3. 123
4. 28 =
5. 16
6. 8 · 8
7. 25
8. 256
9. 45 means
10. 4 · 5
11. 4 + 4 + 4 + 4 + 4
12. 5 · 5 · 5 · 5
13. 4 · 4 · 4 · 4 · 4
14. Choose a number that can be written as the product of the same factor. Then write it as a base with an exponent.

Show your work here:

1. 3.6·104=
2. 360,000
3. 3.60000 .
4. 0.3600
5. 36,000

6. 7.1 · 10 -2=

1. 0.71
2. 0.071
3. 710
4. -7.1
5. Write the following number in scientific notation: 0.000000823
6. 8.23 · 10-6
7. 8.23 · 10 -5
8. 8.23 · 107
9. 9.23 · 10 -7
10. Write the following number in scientific notation: 5,500

A. 5.5 · 103

1. 5.5 · 102
2. 5.5 · 10-2
3. 55 · 102
4. Choose a number between 100 and 1,000. Write it in standard form and in scientific

notation.

Standard Form\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Scientific Notation \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Choose a number between 0 and 1. Write it in standard form and in scientific notation.

Standard Form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Scientific Notation \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Write the following number in scientific notation: 0.00042

Scientific Notation \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

12. Write the following number in standard form: 1.75 · 106

Standard Form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

13. Which of the following is listed as least to greatest?

1. 0, 1, -1, 2, -2, 3, -3, 2 , -2
2. -3, -2, -2, -1, 0, 1, 2, 2, 3
3. -1, -2, -3, 0, 1, 2, 3
4. -3.75, -3, -3.9, -2.75, 0, 0.50. 0.05

1. Choose a number less than 100 that can be written as the product of the same factor. Then write it as a base with an exponent.

Product of Same Factor\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Base with Exponent \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Divide 64 by 34 and round your answer to the nearest hundredth.
2. 0.53
3. 1.8823
4. 1.8
5. 1.88
6. Kim got 22 out of 24 correct on her math test. Express the number she got correct as a fraction in simplest form, as a decimal, and as a percent.

Need box for answer

1. Evaluate the expression *ab* , if a = -2½ and b = ¼. Express in simplest form.

Need box for answer

1. In order to attend the 6th grade field trip to the state’s capital, each student will need $15.50 for the chartered bus ride and $8.50 for food. If there are 90 students attending, how much money will be collected for this field trip? Need box for answer and work
2. Explain how to solve -2/3 = - 20 using properties of equality. Use the term **multiplicative inverse** in your explanation.

Need box for answer

20. Solve for x: - 0.4 + x = 2.6

a. 6.6

b. -3

c. 2.2

d. 3

21. An isosceles triangle has two equivalent sides of 9 inches and a perimeter of 30 inches. Write and solve an addition equation to determine the length of the third side. Show your work.

Need box for equation, work, and answer