

Name: \_\_\_\_\_ Section: \_\_\_\_\_

### Mid-Module Assessment Retake

Students may retake this version of the mid-module assessment for up to 15 test bonus points\* Students must complete every question and parent must sign in order to receive bonus points.

Due: \_\_\_\_\_

Due to being 2<sup>nd</sup> attempt, final test scores will not exceed 79/C

1. Compare using  $<$ ,  $>$ , or  $=$

a.  $0.356$  \_\_\_\_\_  $0.4$

b. 2 thousandths + 9 hundredths \_\_\_\_\_  $0.29$

c. 9 tens 1 tenths 3 thousandths \_\_\_\_\_  $90.13$

d. 23 tenths \_\_\_\_\_  $2.4$

e.  $7 \times 10^3 + 1 \times 100 + 2 \times \frac{1}{10}$  \_\_\_\_\_  $7 \times 1000 + 1 \times 10^2 + 2 \times \frac{1}{10}$

f.  $6 \times \frac{1}{10} + 4 \times \frac{1}{1000}$  \_\_\_\_\_  $0.640$

2. Model the number 2.22 on the place value chart.

- a. Use words, numbers, and your model to explain why each of the digits has a different value. Be sure to use “ten times as large” and “one tenth as large” in your explanation.

I have reviewed and checked my child's work: \_\_\_\_\_

(Parent Signature)

b. Multiply  $2.22 \times 10^4$ . Explain the shift of the digits and the change in the value of each digit.

c. Divide the product from (b) by  $10^2$ . Explain the shift of the digits and the change in the value of each digit.

3. Rainfall collected in a rain gauge was found to be 4.6cm when rounded to the nearest tenth of a centimeter.

a. Circle all the measurements below that could be the actual measurement of the rainfall.

4.62

4.68

4.51

4.59

b. Convert the rounded measurement to meters. Write an equation to show your work.

I have reviewed and checked my child's work: \_\_\_\_\_  
(Parent Signature)

4. Average annual rainfall totals for the cities in New York are listed below

|                  |       |
|------------------|-------|
| Rochester        | 0.98  |
| Ithaca           | 0.962 |
| Saratoga Springs | 1.2   |
| New York City    | 2.939 |

a. Put the rainfall measurements in order from least to greatest.

*Write the smallest total rainfall in word form and expanded form.*

b. Round each of the rainfall totals to the nearest tenths.

c. Imagine New York City's rainfall is the same every year. How much rain would fall in 100 years?

d. Write an equation using an exponent that would express the 100-year total rainfall. Explain how the digits have shifted position and why.

I have reviewed and checked my child's work: \_\_\_\_\_  
(Parent Signature)