

Name _____

Due Date _____

Mid Module 1 Study Guide

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

a. $\underline{.6}$ $(>)$ $0.\underline{5}34$

b. 9 thousandths + 6 hundredths
 $\underline{.069}$ $(<)$ $0.09\underline{6}$

c. 5 tens 34 tenths 1 hundredth
 $\underline{53.41}$ $(>)$ $50.\underline{31}$

d. 57 tenths
 $\underline{5.7}$ $(=)$ 5.7

e. $(7 \times 10^3) + (3 \times 100) + (4 \times \frac{1}{10})$ $(>)$ $(7 \times 1000) + (3 \times 10^2) + (3 \times \frac{1}{10})$
 $\underline{7300.4}$ $\underline{7300.3}$

f. $2 \times \frac{1}{10} + 8 \times \frac{1}{1000}$ $(<)$ $0.28\underline{0}$
 $\underline{.208}$

2. Which statement correctly compares two values?

- (a) The value of the 5 in $37.\underline{5}96$ is $1/10$ the value of the 5 in $2\underline{5}.74$.
- (b) The value of the 5 in $37.\underline{5}96$ is 10 times the value of the 5 in $2\underline{5}.74$.
- (c) The value of the 5 in $37.\underline{5}96$ is $1/100$ the value of the 5 in $2\underline{5}.74$.
- (d) The value of the 5 in $37.\underline{5}96$ is 100 times the value of the 5 in $2\underline{5}.74$.

3. A school district orders 278 boxes of erasers. Each box contains 100 erasers. If the erasers are to be shared evenly amongst 10 classrooms, how many erasers will each class receive? Write your answer in the box provided.

2780 erasers

$$278 \times 100 = 27,800$$

$$27,800 \div 10 = 2780$$

4. Rainfall collected in a rain gauge was found to be 4.7 cm when rounded to the nearest tenth of a centimeter.

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

Round these to the nearest tenth

4.751 cm
4.8

4.749 cm
4.7

4.652 cm
4.7

4.695 cm
4.7

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

$$4.7 \text{ cm} = \underline{\quad} \text{ m}$$

$$4.7 \div 100 = .047 \text{ m}$$

5. What exponent will make this equation true? Enter your answer in the box.

$$10^? = 100$$

2

6. Which number is 100 times greater than 8 hundredths?

- a. 0.8
- b. 0.08
- c. 8
- d. 80

$$.08 \times 100 = 8$$

7. What is the value of 483.56×10^3 ? 483,560

8. What is the value of $56 \div 10^2$? 0.56

9. Which of these are equal to 64.402? Select **TWO** correct answers.

a. ^{64.402} sixty-four and four hundred two thousandths

b. ⁶⁰ ⁴ ^{.4} ^{.2} $(6 \times 10) + (4 \times 1) + (4 \times 1/10) + (2 \times 1/100) = 64.42$

c. ⁶⁴ ^{4.02} sixty-four and four hundred two hundredths = 68.02

d. ⁶⁰ ⁴ ^{.4} ^{.002} $(6 \times 10) + (4 \times 1) + (4 \times 1/10) + (2 \times 1/1000) = 64.402$

e. sixty-four and forty-two thousandths
^{64.042}

10. Average annual rainfall totals for cities in Tennessee are listed below.

Memphis	1.23 meters
Nashville	0.97 meters
Union City	0.943 meters
Paris	1.28 meters

1. ~~2~~30
0.970
0.943
1.280

a. Put the rainfall measurements in order from least to greatest. Write the smallest total rainfall in word form and expanded form.

0.943

0.97

1.23

1.28

Word Form: nine hundred forty-three thousandths

Expanded Form: $(9 \times \frac{1}{10}) + (4 \times \frac{1}{100}) + (3 \times \frac{1}{1000})$

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

Memphis 1.2

Nashville 1.0

Union City 0.9

Paris 1.3