Tahnoon Bin Mohammed School Math

Unit 3

Unit Assessment, Form A

Name _____

1. Which statement about the digits in the number 39,906 is true?

A. The value of the digit 9 in the thousands place is 10 times the value of the digit 9 in the hundreds place.

B. The value of the digit 9 in the thousands place is $\frac{1}{10}$ the value of the digit 9 in the hundreds place.

C. The value of the digit 9 in the thousands place is 100 times the value of the digit 9 in the hundreds place.

D. The value of the digit 9 in the thousands place has the same value as the digit 9 in the hundreds place.

2. How can you write the number in standard form?

In standard form, the number *nine hundred two and fifty-one thousandths* is written _____.

3. Look at the digit 7 in the numbers given in the place-value chart.

hundred thousands	ten thousands	thousands	hundreds	tens	ones
7	9	7	2	6	4
	7	0	1	3	8

Which statement is true? Choose all that apply.

A. 70,000 is $\frac{1}{10}$ of 700,000

B. 7,000 is 10 times 700,000

C. 70,000 is $\frac{1}{10}$ of 7,000

D. 7,000 is $\frac{1}{10}$ of 70,000

E. 70,000 is 10 times 7,000

4. Use the place value chart to complete the statement.

hundreds	tens	ones	tenths	hundredths	thousandths
4	6	5	5	5	1

The value of the digit 5 in the tenths place is $\frac{1}{10}$ the value of the digit 5 in the _____ place.

A. ones **B.** tenths **C.** hundredths

5. Is each comparison *True* or *False*?

		True	False
a.	$0.12 < 0.2$		
b.	$0.407 > 0.446$		
c.	$0.089 < 0.09$		
d.	$0.61 > 0.06$		
e.	$0.555 < 0.55$		
f.	$0.34 = 0.034$		

6. A centimeter is 0.01 meter. A millimeter is 0.001 meter.

How does the length of 1 centimeter compare to the length of 1 millimeter? Explain your answer.

7. What is the expanded form of 405.072?

A. $40 + 5 + \frac{7}{100} + \frac{2}{1{,}000}$

B. $40 + 5 + \frac{7}{10} + \frac{2}{100}$

C. $400 + 5 + \frac{7}{10} + \frac{2}{100}$

D. $400 + 5 + \frac{7}{100} + \frac{2}{1{,}000}$

Name _____

8. Do the numbers round to 5.3 when rounded to the nearest tenth? Choose *Yes* or *No* for each number.

		Yes	*No*
a.	5.26		
b.	5.38		
c.	5.227		
d.	5.308		
e.	5.251		

9. What is the decimal form of each fraction? Draw a line to match. Not all decimals will be used.

$\frac{333}{1000}$

$\frac{3}{100}$

$\frac{33}{100}$

$\frac{3}{1000}$

0.3

0.03

0.003

0.33

0.033

0.333

10. The table shows the time it took Kara and Soo to each run the 100-meter dash.

Student	Time (seconds)
Kara	14.09
Soo	14.22

Which student ran faster? Explain how you know.

How can you round the number?

11. 0.291 rounded to the nearest tenth is _____.

12. 0.291 rounded to the nearest hundredth is _____.

13. Which is the correct word form for 302.07?

A. thirty-two and seven hundredths

B. three hundred two and seven tenths

C. three hundred two and seven hundredths

D. three hundred two and seven thousandths

14. Rounded to the nearest 10 dollars, Holly spent about $30.00 at the store. Which could be the exact amount of her purchases? Choose all that apply.

A. $23.95

B. $28.25

C. $32.88

D. $35.45

E. $38.25

15. Henri rounded the decimal 8.446 to the nearest tenth as 8.5. He reasoned that the digit 6 in the thousandths place rounded the number to 8.45, and so the digit 5 in the hundredths place rounds the number to 8.5 to the nearest tenth. Is Henri correct? Explain.

Unit 3

Unit Assessment, Form B

Name _____

1. Which statement about the digits in 144,672 is true?

A. The value of the digit 4 in the thousands place is 10 times the value of the digit 4 in the ten thousands place.

B. The value of the digit 4 in the thousands place is $\frac{1}{10}$ the value of the digit 4 in the ten thousands place.

C. The value of the digit 4 in the ten thousands place is 100 times the value of the digit 4 in the thousands place.

D. The value of the digit 4 in the ten thousands place has the same value as the digit 4 in the thousands place.

2. How can you write the number in standard form?

In standard form, the number *six and fifty-one thousandths* is written as _____.

3. Look at the digit 2 in the numbers in the place-value chart.

hundred thousands	ten thousands	thousands	hundreds	tens	ones
8	0	6	**2**	7	0
	1	**2**	9	**2**	4

Which statement is true? Choose all that apply.

A. 20 is $\frac{1}{10}$ of 200

B. 2,000 is 10 times 200

C. 200 is $\frac{1}{10}$ of 2,000

D. 200 is $\frac{1}{10}$ of 20

E. 200 is 10 times 2,000

4. Use the place-value chart to complete the statement.

hundreds	tens	ones	tenths	hundredths	thousandths
1	0	7	6	6	6

The value of the 6 in the hundredths place is 10 times the value of the 6 in the _____ place.

A. ones **B.** tenths **C.** thousandths

5. Is each comparison *True* or *False*?

		True	*False*
a.	$0.91 = 0.910$		
b.	$0.77 < 0.777$		
c.	$0.07 > 0.70$		
d.	$0.052 > 0.06$		
e.	$0.109 < 0.121$		
f.	$0.35 > 0.4$		

6. A centimeter is 0.01 meter. A millimeter is 0.001 meter. How does the length of 1 millimeter compare to the length of 1 centimeter? Explain your answer.

7. What is the expanded form of 103.702?

A. $100 + 3 + \frac{7}{10} + \frac{2}{1{,}000}$

B. $100 + 3 + \frac{7}{10} + \frac{2}{100}$

C. $10 + 3 + \frac{7}{100} + \frac{2}{1{,}000}$

D. $10 + 3 + \frac{7}{10} + \frac{2}{1{,}000}$

Name _____

8. Do the numbers round to 7.3 when rounded to the nearest tenth? Choose *Yes* or *No* for each number.

		Yes	*No*
a.	7.26		
b.	7.38		
c.	7.227		
d.	7.308		
e.	7.251		

9. What is the decimal form of each fraction? Draw a line to match. Not all decimals will be used.

	0.005
$\frac{5}{10}$	0.55
$\frac{55}{100}$	0.555
$\frac{5}{100}$	0.5
$\frac{55}{1000}$	0.05
	0.055

10. The table shows the distance each of two marbles travelled when rolled down a ramp.

Marble	Distance (meters)
Marble A	9.36
Marble B	9.08

Which marble traveled farther? Explain how you know.

How can you round the number?

11. 0.752 rounded to the nearest tenth is _____.

12. 0.752 rounded to the nearest hundredth is _____.

13. Which is the correct word form for 205.004?

A. twenty-five and four thousandths

B. two hundred five and four tenths

C. two hundred five and four hundredths

D. two hundred five and four thousandths

14. Rounded to the nearest 10 dollars, Barb spent about $50.00 at the store. Which could be the exact amount of her purchases? Choose all that apply.

A. $43.95

B. $48.25

C. $52.88

D. $55.45

E. $58.25

15. Bill rounded the decimal 12.448 to the nearest tenth as 12.5. He reasoned that the digit 8 in the thousandths place rounded the number to 12.45, and so the digit 5 in the hundredths place rounds the number to 12.5 to the nearest tenth. Is Bill correct? Explain.