

# Tahnoon Bin Mohammed School

Unit 3

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

### Unit 3

### Unit Assessment, Form A (continued)

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

### Unit 3

### Unit Assessment, Form B (continued)

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.

$\frac{5}{10}$   
 $\frac{55}{100}$   
 $\frac{5}{100}$   
 $\frac{55}{1000}$

0.005

0.55

0.555

0.5

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.