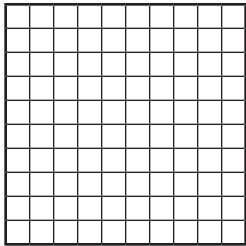


**Ready® Mathematics****Unit 1 Mid-Unit Assessment****Form A****Solve the problems.**

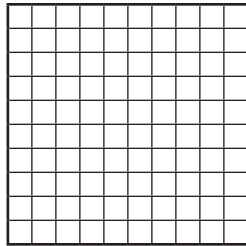
- 1** Tanya needs to write the number twenty-one and twelve thousandths as a decimal on her science lab report. How should she write this in standard form?

- A** 12.012  
**B** 21.121  
**C** 21.12  
**D** 21.012

- 2** Shade the models below to show how the value of 0.07 is related to the value of 0.7. Then write a multiplication equation to represent this relationship.



0.07



0.7

- 3** Terrence says there are 3 correct ways to express the equivalent of 3.087 listed below. Check *Yes* or *No* for each one to say whether you agree.

- a.** three and eighty-seven hundredths  Yes  No
- b.**  $0.08 + 3 + 0.007$   Yes  No
- c.**  $3 + 0.87$   Yes  No
- d.**  $3 \times 1 + 8 \times \frac{1}{100} + 7 \times \frac{1}{1000}$   Yes  No
- e.**  $3 + \frac{8}{100} + \frac{7}{1000}$   Yes  No



**Unit 1 Mid-Unit Assessment** *continued***Form A**

- 4** Duncan told his friend Tran that when you multiply any number by  $10^2$ , you can just write two zeros after the last digit of the number. He gives this example:  $4 \times 10^2 = 400$  to prove that this is always true. Tran disagrees and gives this example:  $0.4 \times 10^2$  to prove that Duncan's rule is not always true.

Who is correct? Explain your answer.

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- 5** In which number does the digit 3 have a greater value, 0.13 or 0.013? How many times greater is the value? Explain how you know.

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- 6** Which of these changes would make this comparison true? Circle all correct answers.

$$5.6 < 5.47$$

- A** Round 5.47 to the nearest tenth.
- B** Increase the tenths digit in 5.47 to a 6.
- C** Change the 6 in 5.6 to a 4.
- D** Reverse the tenths and hundredths digits in 5.47.
- E** Increase the tenths digit in 5.6 to a 7 and change the symbol to  $>$ .



**Unit 1 Mid-Unit Assessment** *continued***Form A**

- 7** Blocks of cheese are cut at the deli and weights are shown in the table below:

Cheddar	0.753 lb
Colby Jack	0.634 lb
Havarti	0.749 lb
Feta	0.696 lb

**Part A**

Round each block of cheese to the nearest hundredth of a pound.  
Explain how you rounded.

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**Part B**

Order the blocks of cheese from least to greatest based on their weights before rounding and after rounding. Will both lists be in the same order? Explain.

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**Unit 1 Mid-Unit Assessment** *continued***Form A**

- 8** Five newborn babies at a hospital weighed the following weights in pounds. Which weight(s) round to 8 lb? Circle all the correct answers.

**A** 8.075

**B** 7.099

**C** 7.561

**D** 8.501

**E** 7.800

- 9** Write the missing power of 10 in each equation.

**a.**  $0.06 \times \underline{\hspace{2cm}} = 6$

**b.**  $\underline{\hspace{2cm}} \times 0.3 = 300$

**c.**  $0.50 \times \underline{\hspace{2cm}} = 5$

**d.**  $\underline{\hspace{2cm}} \times 0.004 = 40$

- 10** Kara is ordering shirts for a school fundraiser. Size large shirts make up 23% of the shirts.

**Part A**

If there are 100 shirts, how many of the shirts are size large?

\_\_\_\_\_

**Part B**

Fill in the blanks to represent the amount of large shirts as a fraction and a decimal.

23% percent      Fraction \_\_\_\_\_      Decimal \_\_\_\_\_

