

# 5<sup>th</sup> Grade Math Unit 2 Study Guide

## Vocabulary

Find the definition and provide an example or picture for each term.

Term	Definition	Example/Picture
Decimal		
Fraction		
Decimal Point		
Tenths		
Hundredths		
Thousandths		
Ones		
Place Value		
Rounding		
Benchmarks		
Greater Than		
Less Than		
Equivalent		
Number Names (Word Form)		
Expanded Form		

## Place Value Check

Fill in the blanks.

<b>Base-Ten</b>	4 ,	8	6	1	9	3	2
<b>Place</b>	Thousands						
<b>Value</b>	4,000						
<b>Word Form</b>							
<b>Expanded Form</b>							

## Place Value Comparison

Look at the number below.

3.324

How does the value of the underlined digit compare to the value of the digit to its right?

- A. It is 10 times the value of the digit to the left
- B. It is  $\frac{1}{10}$  the value of the digit to the left
- C. It is 5 times the value of the digit to the left
- D. It is  $\frac{5}{10}$  times the value of the digit to the left

Select two statements that are correct.

- A. In the number 5920, 5 represents 10 times as much as it represents in the number 4905.
- B. In the number 9731, 7 represents  $\frac{1}{10}$  times as much as it represents in the number 7982.
- C. In the number 24.87, 4 represents 10 times as much as it represents in the number 52.46.
- D. In the number 9.235, 3 represents  $\frac{1}{10}$  times as much as it represents in the number 7.903.

## Expressing Decimals

Look at the number below.

851.973

### Part A

Which the correct representation of the number in Word Form?

- A. Eight hundred fifty one and ninety seven and three thousandths
- B. Eight hundred and fifty one point nine seven three
- C. Eight hundred fifty one point nine hundred seventy three thousandths
- D. Eight hundred fifty one and nine hundred seventy three thousandths

**Part B**

Which shows the correct representation of the number in Expanded Form?

- A.  $8 \times 100 + 5 \times 10 + 1 \times 1 + 9 \times \frac{1}{1000} + 7 \times \frac{1}{100} + 3 \times \frac{1}{10}$
- B.  $(8 \times 100) + (5 \times 10) + (1 \times 1) + (9 \times \frac{1}{1000}) + (7 \times \frac{1}{100}) + (3 \times \frac{1}{10})$
- C.  $8 \times 100 + 5 \times 10 + 1 \times 1 + 9 \times \frac{1}{10} + 7 \times \frac{1}{100} + 3 \times \frac{1}{1000}$
- D.  $800 + 50 + 1 + 0.9 + 0.07 + 0.003$

**Comparing & Rounding Decimals**

Below are the number of minutes each teacher can hold their breath under water. Fill in the blanks.

Teacher	Decimal	Nearest Tenth	Nearest Hundredth
Mr. Lew	2.564		
Ms. Childs	2.725		
Mr. Fernandez	2.673		
Mr. Williams	2.809		

Sort the teachers from greatest to least according to their decimal values.

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When rounded to the nearest tenth, which two teachers had an equivalent result?

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Which teachers rounded up when rounding to the nearest hundredths? How did you know?

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Circle the statements that are true.

- A.  $15.09 > 1.509$
- B.  $2.805 < 2.085$
- C.  $4.875 > 4.895$
- D.  $7.777 < 7.770$

## Adding and Subtracting Decimals

Ms. Fullerton solved  $8.24 + 9.7$  to equal 17.31. Is she correct? \_\_\_\_\_

Explain your reasoning. If you disagree, provide a different answer.

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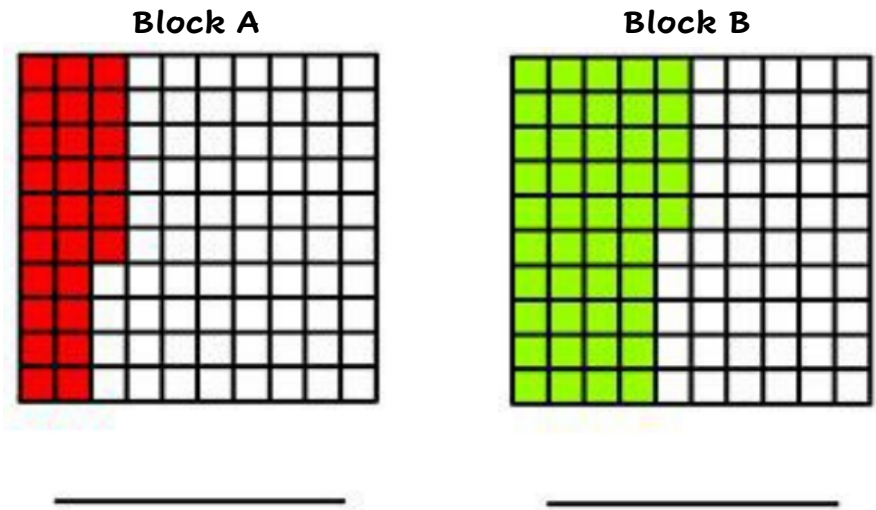
Explain the error for each decimal equation. Then solve.

Decimal Equation	Error (Explain in words)	Solve
$9.20 + 84.3 + 3.04 =$ Wholes: $9 + 84 + 3 = 96$ Decimals: $20 + 3 + 4 = 27$ Total = $96 + .27 = 96.27$		
$\begin{array}{r} 6.75 \\ 12.31 \\ + 3.246 \\ \hline 5.152 \end{array}$		
$\begin{array}{r} 9.004 \\ - 2.84 \\ \hline 7.80 \end{array}$		
$52.07 - 4.59 = ?$  I know that $52 - 4 = 48$ I know that $59 - 7 = 52$  So, 48 wholes and 52 hundredths equal 48.52		

Ms. Dennis is holding a book fair. In the end, she only has three books remaining. A thriller for \$5.99, a historical fiction book for \$7.25 and a graphic novel for \$4.99. If Jaime wants to buy all three books and Ms. Dennis is only accepting exact change, how much money will Jaime have to bring to Ms. Dennis?

## Decimal Block

Look at the blocks below. Write the decimals that are represented by each block.



### Part A

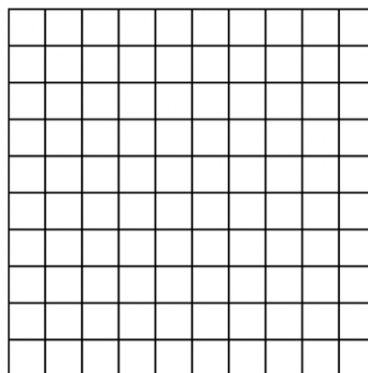
How much less is the decimal represented by Block A than the decimal represented by Block B?

- A. 0.71
- B. 1.70
- C. 0.19
- D. 0.20

### Part B

What does the decimal value of Block C need to be to make one whole when the values of all three blocks are added together? Color in the decimal block and list the decimal amount below.

### Block C



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