Check Your Answers on Decimal Place Value!

- To write the number "two hundred five and thirty-seven thousandths", recall that "and" indicates the position of the decimal point. "Two hundred five" is written to the left of the decimal point and "thirty-seven thousandths" is 1. 205.037 written to the right of the decimal point with the last digit of 37 (the "7") in the thousandths place. Use a "0" to represent the tenths place. (See the diagram below for place value positions.) Note that number value labels ending in "th" indicate values to the right of the decimal point.
- To write the number "ten thousand twenty and eighteen ten thousandths", recall once again that "and" indicates the 2. 10,020.0018 position of the decimal point. Any problems with "ten thousand twenty"? "Eighteen ten thousandths", written to the right of the decimal point, must have the final digit of 18 (the "8") in the ten thousandths place, using "0" to represent both the tenths and hundredths place. (Refer to the diagram below for place value positions.) Again number value labels ending in "th" will be placed to the right of the decimal point.
- The fraction $\frac{100}{100}$, which would be stated as 7 hundredths, is written with the "7" in the hundredths place and a "0" 3. 0.07 to represent the tenths place and ones place. (Refer to the diagram below for place value positions.)
- 4. 7 (ten thousands place)

- In Questions 4-7, recall place value: 7
- 5. 8 (hundred thousandths place)
- 6. 4 + 6 = 10 (hundreds place digit + the thousandths place digit)
- 7. $5 \times 3 = 15$ (hundredths place digit × tens place digit)
- $2,687.\overline{09}$ is a repeating decimal. The bar above the digits 09 indicates that those digits repeat. In other 8. 0 (thousandths place) words, $2,687.\overline{09}$ means 2,687.09090909... which means that "0" will be in the thousandths place.
 - In Ouestions 9 10: $987,654.\overline{321}$ means **9 8**

- Tenths Hundredths

\ Tenths

Hundredths

Thousandths

Thousandths Ten Thousandths

Ten Thousandths

- 9. 2 (hundred thousandths place)
- 10. 7 + 1 = 8 (thousands place digit + millionths place digit)

Perfect score? Yes! You've got this!! You're ready to move on to the next section!!!