

## Summary of Chapter 5

<b>Topic</b>	<b>Rule</b>	<b>Comment</b>
Adding or subtracting decimals	<ol style="list-style-type: none"><li>1. Line up the decimal points.</li><li>2. Put zeros in decimal places as needed so that the two decimals have the same number of decimal places.</li><li>3. Add or subtract.</li></ol>	
Multiplying decimals	<ol style="list-style-type: none"><li>1. No need to line up the decimal points. Just “right justify” the numbers (line them up on the right).</li><li>2. Multiply as usual.</li><li>3. Count the number of decimal places in the first number and the number of decimal places in the second number. Add those results up. Put that many decimal places in the answer.</li></ol>	

Dividing a decimal by a whole number	<ol style="list-style-type: none"><li>1. Divide as usual, ignoring the decimal point. Be sure to keep the digits lined up properly.</li><li>2. Bring the decimal point in the dividend (the number under the long division symbol) straight up into the quotient (the answer).</li></ol>	
Dividing a decimal by a decimal	<ol style="list-style-type: none"><li>1. Move the decimal in the divisor (the number outside the long division symbol) to the right the number of places needed to obtain a whole number.</li><li>2. Move the decimal in the dividend (the number under the long division symbol) the same number of places.</li><li>3. Divide ignoring the decimals.</li><li>4. Bring the (shifted) decimal point straight up into the answer.</li></ol>	
Dividing decimals and obtaining a repeating decimal or a terminating decimal	<ol style="list-style-type: none"><li>1. Divide until the quotient (answer) repeats or terminates. If you run out of digits in the dividend (the number under the long division symbol), just put zeros in the decimal places on the right, as needed.</li></ol>	

Dividing decimals and rounding		
Changing a fraction to a decimal		
Changing a decimal to a fraction		
Circumference of a circle		
Area of a circle		
Volume of a sphere		

