Rounding

<u>Value of the Place and Representing Numbers</u>

Let's take a look at the number **3529.6**
How would you read this number?

What is the place value of each digit?

Sample Numbers					Value of the Place
					Millions
				3	
				5	Hundreds
				2	
				9	
				•	Decimal
				6	
					Thousandths

Example 1 Write the place value of the underlined digit.
a) 25.9<u>3</u>   b) 4<u>5</u>6.1

Example 2 Round each number to the nearest tenth, hundredth, and thousandth.

	Tenth	Hundredth	Thousandth
12.4678			
45.5998			
0.9643			

Exponents

Power: 3^4, what does this mean?

Exponents are a way of simplifying a repeated multiplication.

Example 1 Write the following as a power in Exponential Form.

a) $2 \bullet 2 \bullet 2 \bullet 2$

b) $(-4)(-4)(-4)(-4)(-4)$

c) $a \bullet a \bullet a$

d) xx

e) $6.2 \times 6.2 \times 6.2$

Example 2 Use the exponent button on your calculator to evaluate the following.

a) 7^2

b) 6^3

c) 9^4

d) 4.7^5

Example 3 Express 81 as a power of

a) 3

b) 9