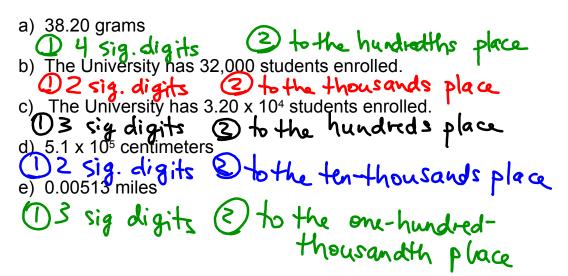


<u>Significant Digits</u> are the digits in a numeric representation that represent actual measurements and therefore have meaning.

EX 1: State the number of significant digits and the implied precision.



## Practice Rounding

EX 2: Round the number 658.49215 to the nearest

EX 3: Round each to the specified number of significant digits.

a) 
$$3.2 \text{ m} \times 4.81 \text{ m}$$
; give your answer with 2 significant digits.  
 $3.2 (4.81) = 15.392$ 
b)  $250,000 \times 531,800,000$ ; give your answer with 3 significant digits.  
 $250,000 (531,800,000) = (2.5 \times 10^5)(5.318 \times 10^9)$ 

$$= (2.5 \times 5.318)(10^5 \times 10^9)$$

$$= (2.5 \times 5.318)(10^5 \times 10^9)$$

$$= (3.329.5 \times 10^{13})$$

$$= (3.329.5 \times 10^{13})$$