



relative, absolute

Math 1030 #7a

random, systematic

Dealing With Uncertainty

significant digits

Significant Digits

accuracy, precision

Rounding

Significant Digits 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.

- a) 38.20 grams
- b) The University has 32,000 students enrolled.
- c) The University has 3.20×10^4 students enrolled.
- d) 5.1×10^5 centimeters
- e) 0.00513 miles

Practice Rounding

EX 2: Round the number 658.49215 to the nearest

a) Thousandth

b) Hundredth

c) Tenth

d) One

e) Ten

f) Hundred

g) Thousand

Rounding with Significant Digits

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

a) 3.2 m x 4.81 m; give your answer with 2 significant digits.

b) 250,000 x 531,800,000; give your answer with 3 significant digits.