
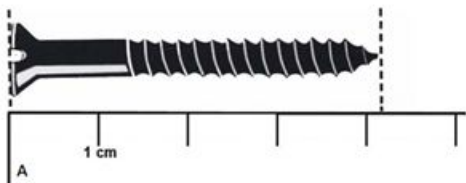
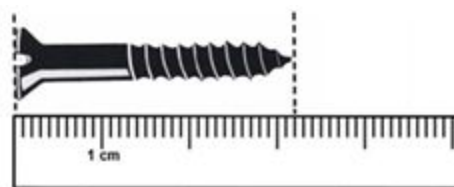


<h1>N</h1>	106 Significant Figures	
	Objectives 1. Distinguish between measured and exact numbers 2. Explain what are significant figures 3. Identify the number of significant figures in a measurement 4. Perform calculations and express the answers to the correct significant figures 5. Round answers to the correct number of significant figures	

106.1 Measured and Exact Numbers



106.2 Significant Figures



106.3A Rules to Identify Significant Figures in Measurements

	4.5 cm	136.45 cm
	306 cm	5.002 m
	3.0 g 32.0 g	18.00 g
	4.6×10^3 kg	6.40×10^{-3} kg
	0.00035 cm	0.047 cm
	59000 m	892,000,000 mm

106.3B Alternative Way to Identify Significant Figures in Measurements

PLAR

106A Concept Check

Underline and indicate all the numbers that are significant in the measurements below (units omitted).

16.35

265

25000

0.00590

6.00

0.00305

2605

0.0078

2.500

5600

0.003050

250

0.00409

20.50

985

106.4A Significant Figures in Calculations: Addition and Subtraction

106.4B Significant Figures in Calculations: Multiplication and Division

106.5 Rounding
