

1. State the number of significant digits in each of the following:

2.50 cm	_____	3.060 in	_____
150 ft	_____	101500 yd	_____
83.120 g	_____	0.707 s	_____
558.101 kg	_____	8540 cm	_____

2. Round of each of the following numbers to **three** significant digits:

10.505 cm	_____	558.601 kg	_____
61.15 g	_____	14.68 s	_____
6547.25 g	_____	0.70549 mL	_____
0.005486 m	_____	149.02 lb	_____

3. Convert the following numbers into scientific notation with **three** significant digits:

0.00005248	_____	120301235	_____
0.00124987	_____	0.000000125	_____
9854267000	_____	4569830000	_____

4. Add or subtract the following measurements, giving the correct number of significant digits in your answer:

$31.15 \text{ cm} + 41.000 \text{ cm} =$	_____	$0.35 \text{ g} + 0.01258 \text{ g} =$	_____
$242.167 \text{ s} - 175 \text{ s} =$	_____	$10.0 \text{ mL} - 0.247 \text{ mL} =$	_____
$152.0 \text{ kg} + 4589.11 \text{ kg} =$	_____	$52.69 \text{ cm} - 0.5339 \text{ cm} =$	_____

5. Multiply or divide the following measurements, giving the correct number of significant digits in your answer:

$5.1 \text{ cm} \times 3.65 \text{ cm} \times 9.40 \text{ cm} =$	_____	$66.3 \text{ g} / 7.521 \text{ mL} =$	_____
$21.1 \text{ cm} \times 20 \text{ cm} =$	_____	$131.78 \text{ m} / 19.25 \text{ s} =$	_____
$12.0 \text{ cm}^3 / 0.1464 \text{ cm} =$	_____	$8.76 \text{ s} \times 9.6 \text{ s} =$	_____