

Significant Digits

Calculations

Rules for Addition and Subtraction

- When you _____ or _____ measurements, your answer must have the same number of _____ as the one with the fewest
- For example:
 $20.4 + 1.322 + 83$

Addition & Subtraction Problems

- 1) $1.23056 + 67.809 =$ 1) _____
- 2) $23.67 - 500 =$ 2) _____
- 3) $40.08 + 32.064 =$ 3) _____
- 4) $22.9898 + 35.453 =$ 4) _____
- 5) $95.00 - 75.00 =$ 5) _____

Rules for Multiplication & Division

- When you _____ and _____ numbers you look at the **TOTAL** number of _____ **NOT** just decimal places
- For example:
 67.50×2.54

Multiplication & Division Problems

- 1) $890.15 \times 12.3 =$ 1) _____
- 2) $88.132 / 22.500 =$ 2) _____
- 3) $(48.12)(2.95) =$ 3) _____
- 4) $58.30 / 16.48 =$ 4) _____
- 5) $307.15 / 10.08 =$ 5) _____

More Significant Digit Problems

- 1) $18.36 \text{ g} / 14.20 \text{ cm}^3$ 1) _____
- 2) $105.40 \text{ }^\circ\text{C} - 23.20 \text{ }^\circ\text{C}$ 2) _____
- 3) $324.5 \text{ mi} / 5.5 \text{ hr}$ 3) _____
- 4) $21.8 \text{ }^\circ\text{C} + 204.2 \text{ }^\circ\text{C}$ 4) _____
- 5) $460 \text{ m} / 5 \text{ sec}$ 5) _____