

Name: _____ Due Date: Jan 11, 2018

Significant figures:

Refer to the video: Significant Figures – Addition and Subtraction Rules – Example 1

1. $12 \text{ cm} + 6.143 \text{ cm} + 1.5067 \text{ cm} = ?$ Answer: _____

Answer has how many significant figures: ____

Refer to the video: Significant Figures – Addition and Subtraction Rules – Example 2

2. $120.98 \text{ mL} - 4 \text{ mL} = ?$ Answer: _____

Answer has how many significant figures: ____

Refer to the video: Significant Figures – Addition and Subtraction Rules – Example 3

3. $2564 \text{ km} + 200 \text{ km} = ?$ Answer: _____

Answer has how many significant figures: ____

Refer to the video: Significant Figures – Addition and Subtraction Rules – Example 4

4. $2.29 \times 10^{-6} \text{ m} + 5.00 \times 10^{-9} \text{ m} = ?$ Answer: _____

Answer in scientific notation: _____

Answer has how many significant figures: ____

Refer to the video: Significant Figures – Multiplication and Division Rules – Example 1

5. $42.00 \text{ cm} \times 0.010 \times 5540 \text{ cm} = ?$ Answer: _____

Answer in scientific notation: _____

Answer has how many significant figures: ____

Refer to the video: Significant Figures – Multiplication and Division Rules – Example 2

6. $0.0325 \text{ g} / (2.0 \text{ g/cm}^3) = ?$ Answer: _____

Answer has how many significant figures: ____

Refer to the video: Significant Figures – Multi-Step Calculations – Example 1

7. $5540 \text{ cm} - \frac{(4.56 - 0.001)}{120} \text{ cm} = ?$

Answer: _____

Answer has how many significant figures: _____

Refer to the video: Significant Figures – Multi-Step Calculations – Example 2

8. $\frac{(31.9995 - 31.9990)}{31.9990} \times 100 = ?$

Answer: _____%

Answer has how many significant figures: _____