

Name: \_\_\_\_\_ Due Date: Jan 14, 2019

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: \_\_\_\_\_