#2: Rounding & Calculations w/ Significant Figures

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Adjust and round these numbers to express the number of sig figs listed.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 24.35 in 3 sig. fig.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 72.49 in 1 sig. fig.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 45.52 in 3 sig. fig.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 120.05 in 4 sig. fig.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 239.5 in 3 sig. fig.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 28.149 in 3 sig. fig.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 63,500 in 2 sig. fig.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 299,000 in 1 sig. fig.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 299,000 in 2 sig. fig.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 92,528 in 4 sig. fig.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0.002 in 2 sig. fig.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2.448 x 104 in 3 sig. fig.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 32,000.000 in 3 sig. fig.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 89,999 in 3 sig. fig.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 79,000 in 1 sig. fig.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0.08726 in 3 sig. fig.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0.003826 in 3 sig. fig.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0.07284 in 1 sig. fig.

[](https://www.google.com/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&cad=rja&uact=8&ved=2ahUKEwjj6a7Eq-jcAhXCTd8KHd9KD2MQjRx6BAgBEAU&url=http://www.enchantingquotes.com/wall-quotes-teens.html&psig=AOvVaw0HigKe8WIj1pLIs92m7uLg&ust=1534191673887989)

Solve the following mathematical problems such that the answers have the correct number of significant figures:

Sig Fig Answer Calculator Answer

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 334.54 grams + 198 grams = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 34.1 grams / 1.1 mL = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2.11 x 103 joules / 34 sec = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 0.0010 m – 0.11 m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 349 cm + 1.10 cm + 100 cm = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 450 meters / 114 seconds = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 298.01 kg + 34.112 kg = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 84 m/s x 31.221 s = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_