## Significant Figure Calculations

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

1)	334.54 grams + 198 grams =
2)	34.1 grams / 1.1 mL =
3)	2.11 x 10 <sup>3</sup> joules / 34 seconds =
4)	0.0010 meters – 0.11 m =
5)	349 cm + 1.10 cm + 100 cm =
6)	450 meters / 114 seconds =
7)	298.01 kilograms + 34.112 kilograms =

8) 84 m/s x 31.221 s = \_\_\_\_\_

## Significant Figure Calculations – Answers

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

- 1) 334.54 grams + 198 grams = 533 grams (rounded from 532.42 grams)
- 2) 34.1 grams / 1.1 mL = **31 g/mL** (not rounded)
- 3)  $2.11 \ge 10^3$  joules / 34 seconds = **62 J/s** (rounded from 62.0588 J/s)
- 4) 0.0010 meters 0.11 m = -0.11 m (rounded from -0.109 m)
- 5) 349 cm + 1.10 cm + 100 cm = **500 cm** (rounded from 450.1 cm)
- 6) 450 meters / 114 seconds = **3.9 m/s** (rounded from 3.9474 m/s)
- 7) 298.01 kilograms + 34.112 kilograms = **332.12 kg** (rounded from 332.122 kg)
- 8) 84 m/s x 31.221 s = **2600 m** (rounded from 2622.564 m)