

Physics Homework

Name _____

Date _____ Period _____



Show PAWS



1) State the number of significant digits in each measurement.

- a. 3.47m _____
- b. 0.0048cm _____
- c. 34000mg _____
- d. 0.0039km _____
- e. 0.040350 _____

2) Multiply or divide each and round to the correct significance.

- a. $5.6\text{m} \times 3.7\text{m} =$ _____ \approx _____
- b. $7.3\text{cm} \times 0.387\text{cm} =$ _____ \approx _____
- c. $0.06\text{mm} \times 246\text{mm} =$ _____ \approx _____
- d. $4.07\text{m} \div 1.4\text{s} =$ _____ \approx _____
- e. $0.00345\text{g} \div 120\text{cm}^3 =$ _____ \approx _____

3) Add or subtract each and round to the correct significance.

- a. $3.4\text{m} + 5.6\text{m} =$ _____ \approx _____
- b. $5.76\text{m} + 0.0145\text{m} =$ _____ \approx _____
- c. $0.987\text{cm} - 0.0347\text{cm} =$ _____ \approx _____
- d. $2345\text{m} - 345.9\text{m} =$ _____ \approx _____
- e. $348\text{m} - 0.357\text{m} =$ _____ \approx _____

4) You need to find the area of your backyard. You measure a length of 25.6m and a width of 8.7m. Find the area and round to the correct significance.

5) You measure the distance from the front gate to the high school and find that it is 1.2km. Your dad's office is 243m closer to the front gate than the high school. How far is it from the front gate to your dad's office?