Real-World Problems and Significant Digits

Independent Set 4.04

Name_____
Date_____
Period_____

Six questions, on your own, in silence. Show the step that does the work.

1. How many significant digits are in 6,030 grams?

2. How many significant digits are in 0.00710 meters?

3. A rectangle measures 2.4×10^2 m by 3.15×10^2 m. Find its area, to the correct number of significant digits.

4. $(6.30 \times 10^4) + (2.8 \times 10^3)$ meters, both measured. Write the sum with the correct precision.

5. A car travels 1.80×10^2 km in 4.0 hours. Find its average speed, to the correct number of significant digits.

6. $(3.7 \times 10^{-2}) - (8.45 \times 10^{-4})$ grams, both measured. Write the difference with the correct precision.