

HOMEWORK SET 1

Significant Digits

1. Find the cross-sectional area of a pipe with diameter measuring 2.50 feet. Express the answer with the proper significant digits.

2. Compute the volume of pavement in a road measured to be 22.0 feet wide and 1.0 mile long. The measured pavement thickness is 0.650 feet. Express the answer in cubic yards using the proper significant digits.

3. If the depth of water in a stream is measured as $7\frac{1}{2}$ inches, find the depth in feet using the proper significant figures.

4. A rectangular field has dimensions 65.00 feet by 125.00 feet. Find the area using the proper significant figures expressed as:
 - a) Square feet
 - b) Acres
 - c) Square meters
 - d) Hectares