## Units of Measure and Precision

All measurements are approximations. The smaller unit of measure will be more precise than the larger unit of measure.

- ounce is more precise than pint
- $\frac{1}{8}$ inch is more precise than $\frac{1}{2}$ inch
- 0.001 kilogram is more precise than 0.01 kilogram

A pencil can be measured as 5 inches, $5 \frac{1}{4}$ inches, $5 \frac{3}{8}$ inches, or $5 \frac{5}{16}$ inches.
Since $\frac{1}{16}$ is the smallest unit of measure, $5 \frac{5}{16}$ is the most precise measurement.

Measure each line segment to the nearest $\frac{1}{8}$ inch and to the nearest centimeter.

## 1.

$\qquad$ 2. $\qquad$
$\qquad$
Measure each line segment to the nearest $\frac{1}{16}$ inch and to the nearest millimeter.
3. $\qquad$
4.
$\qquad$
5. $\qquad$ 6. $\qquad$
$\qquad$
7. Geometry Ed measured a piece of siding for his garage at 12 feet, $4 \frac{3}{8}$ inches. Ed's father measured the same piece of siding at 12 feet, $4 \frac{1}{4}$ inches. Which overall measurement is more precise? Why?
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8. Writing to Explain Abby measured the width of a doorway at 1 yd. Celia measured the same doorway at 3 ft 7 in . Which measurement is more precise? Explain.
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