

Imperial Measurements

Place the measurement units below in the appropriate column (USE PENCIL!!!). Don't forget to also write the name of an object that could be measured in that unit underneath the unit.

| | | |
|-------------|-------------|-------------|
| Inch | foot | yard |
| Mile | square inch | square foot |
| Square yard | square mile | cubic inch |
| Cubic foot | cubic yard | gallon |
| Ounce | pound | pint |
| Ton | acre | cubic mile |

| Length | Area | Volume | Mass |
|--------|------|--------|------|
| | | | |

Estimating and Measuring Imperial LengthsSymbols

6' means six feet

6" means six inches

3. Circle the better measurement.

- a) The length of this book is about

1 in. 1 ft

- b) The diameter of a CD is about

12 in. 4 in.

- c) The length of a car is about

10 ft 10 yd

- d) The width of a fingernail is about

1" 1'

- e) The height of a table is about

2 ft 6 ft

- f) The diameter of a skateboard wheel is about

 $\frac{1}{2}$ in. 3 in.**4.** State the Imperial unit that you might use to measure each of the following items. The first one is done for you.

- a) a ceiling tile _____ feet

- b) the length of a pencil _____

- c) the length of a football field _____

- d) the height of a cat _____

- e) a city block _____

- f) the height of a fence _____

- g) the length of a snowboard _____

- h) the length of your hair _____

- 1.** Look at a tape measure with Imperial units. Find the following relationships.

a) How many inches are in one foot?

b) How many inches are in half a foot?

c) How many inches are in two feet?

- 2.** Convert each measurement to the unit specified. The first one is done for you.

a) $2 \text{ ft} =$ _____ in. b) $3 \text{ ft} =$ _____ in.

c) $3 \text{ ft} =$ 1 _____ d) $6 \text{ ft} =$ _____ yd

e) $6 \text{ in.} =$ _____ ft f) $1\frac{1}{2} \text{ ft} =$ _____ in.

Student Handout Unit 5 Lesson 1

Inch by Inch

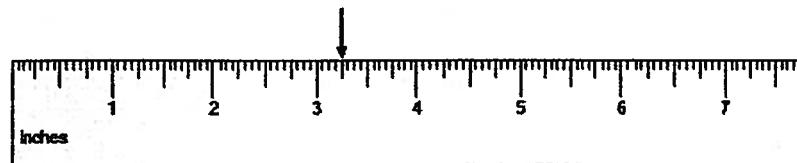
Measure the distance from the left edge of the ruler to the arrow. The following example shows $\frac{1}{2}$ inch.



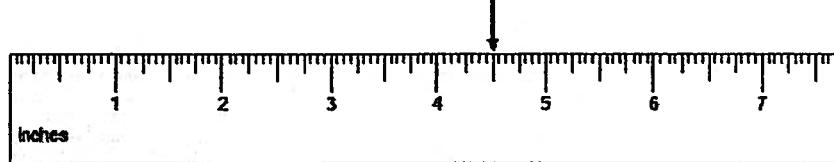
1. _____ inches



2. _____ inches



3. _____ inches



In the following table you will see many common school items. Your job is to estimate what you think the measurement of that item will be and then measure the item with the devices that are provided. It's important that you take a really good estimate before you measure. To keep things simple, you can estimate to the closest $\frac{1}{2}$ unit (for example, if you are estimating the length of your arm, you might guess $1\frac{1}{2}$ feet, 2 feet or $2\frac{1}{2}$ feet).

| ITEM | ESTIMATE | ACTUAL |
|--------------------|----------|--------|
| Desk Height | ft. | ft. |
| Desk Width | ft. | ft. |
| Keyboard Width | in. | in. |
| Textbook Width | in. | in. |
| Textbook Thickness | in. | in. |

Assessment and Evaluation Unit 5 Lesson 1

1. Measure the following lines, in inches and centimetres. Be as exact as possible. For inches, be sure to use fractions in lowest terms instead of decimals.

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| | | | |
|-----|-------|--------|----------|
| (a) | _____ | inches | _____ cm |
| (b) | _____ | inches | _____ cm |
| (c) | _____ | inches | _____ cm |
| (d) | _____ | inches | _____ cm |

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2. Which Imperial unit would you use to measure the following:

- (a) the width of your hand _____
- (b) the width of the classroom _____
- (c) the distance from Waterloo to Kingston _____
- (d) your weight _____
- (e) the volume of water in a bottle _____
- (f) the area of land in a city block _____