# What's Your Benchmark?

Name _____

Class _____

## Problem 1 – Finding Benchmarks

For each measurement below, identify a benchmark that will help you remember the size of one unit.

| Unit | Benchmark |
|------|-----------|
| **1.** centimeter | _____ |
| **2.** foot | _____ |
| **3.** 25 feet | _____ |
| **4.** inch | _____ |
| **5.** yard | _____ |
| **6.** pound | _____ |
| **7.** ounce | _____ |
| **8.** meter | _____ |
| **9.** 10 meters | _____ |
| **10.** mile | _____ |

## Problem 2 – Calculator Measurements

For Questions 11–14, state how many TI-73s would be equivalent to the given length. For example, two feet is about 2.5 TI-73s long.

**11.** 5 feet = _____ TI-73s long

**12.** 3 feet = _____ TI-73s long

**13.** 1 meter = _____ TI-73s long

**14.** 50 centimeters = _____ TI-73s long

**15.** How is it helpful to have benchmarks as references for different measurements?

_____

_____

## Problem 3 – Benchmark Challenge

Complete the following table. The first answer is an object with approximately the given measurement. The second answer is an equivalent measure with a different unit. To find a second measure, use the **Convert** menu.

| | Object that is Approximately the Given Length | Convert to a Second Measurement |
|---|---|---|
| **16.** 1 inch | <u>length of small paper clip</u> | <u>2.54 cm</u><br>(Press ①②ⁿ UNIT ① ④ ② ENTER.) |
| **17.** 1 centimeter | _____ | _____ |
| **18.** 1 liter | _____ | _____ |
| **19.** 1 pound | _____ | _____ |
| **20.** 1 meter | _____ | _____ |

## Problem 4 – Using Your Benchmarks

For Questions 21–24, estimate the lengths. If it is helpful to estimate in one unit then convert to another unit, use the **Convert** menu.

**21.** How many feet is your desk from the classroom door?

_____

**22.** How tall in yards is the flagpole (or another tall object outside)?

_____

**23.** How tall in meters is your classroom from floor to ceiling?

_____

**24.** How long is the hallway outside your math classroom? Pick a unit.

_____

**25.** How does having a benchmark help you estimate the length of objects?

_____

_____