Measurements are comparisons of properties against accepted standards, called units.

ENGLISH / US SYSTEM OF UNITS:

1 foot =
$$12$$
 inches 1 yard = 3 feet 1 mile = 1760 yards
$$5280 \text{ ft} = 1 \text{ mi}$$

So what's the problem? These units don't relate to one another in any meaningful way. To do unit conversions in English, we have to MEMORIZE a separate set of factors for each kind of unit.

English units are nonstandard and difficult to use. Solution?

THE METRIC SYSTEM

Metric Base Units:

Length	meter	m
Mass	X kilogram	kg
Temperature	Kelvin	K
Time	second	S

All metric units are made up of COMBINATIONS of **BASE UNITS!**

*we usually treat the gram as if it's the base unit for mass!

- One meter is approximately 3.3 feet.One kilogram is approximately 2.2 pounds.

That about SIZE!