## Strategies for Reading the Ruler



## Beackegrousid - Morld Mide

Two main systems of measurement

- Metric System
- Based on the number 10
- U.S. Customary System
- Based on halving or doubling units


## Betciscjrousjed - M/orjc M/jde

## What countries besides the U.S. have not adopted the metric system?

- A// countries have adopted the metric system, including the United States. However, in nearly all countries people still use traditional units. For a country to switch to metric is a process that happens over time. Only 3 countries in the world, have not officially adopted metric as their primary system of measuring.


## Backerouncd - World Wide



Three countries have not officially adopted the International System of Units as their primary or sole system of measurement: Liberia, Myanmar, and the United States.

## Backejrousic - Usited States

The U. S. has switched to Metric with

- Sporting Events - Olympics
- Military
- Medicine
- Scientific studies

GETTING TO KNOW METRIC



## Backerouncl - Usited States

- At this time, Manufacturing; Transportation; and Construction Industries; are primarily using the U.S. Customary system. In certain sectors, the conversion is obvious (i.e. - Automobiles). However, in these industry areas the changes have not been as complete.
- This is the reasoning for studying both measurement systems used in the United States.


## Backegroursd - Unifed States

Devices that you can measure with- such as a ruler.......

## Metric Details

## Millimeters and Centimeters

10 millimeters $=1$ Centimeter
10 Centimeters = 1 Decimeter


## 2 centimeters

Lets find this point!

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## Metric Details

## Millimeters and Centimeters

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## 10 Centimeters or 1 Decimeter

Lets find this point!

## U. S. Customary Details

## Name - U.S. Customary System

$12^{\prime \prime}$ in a Ruler

$$
12^{\prime \prime}=1 \text { foot }
$$

- The units of the ruler are:
- 1/16" (smallest distance)
- $1 / 8^{\prime \prime}$
- $1 / 4$
- $1 / 2^{\prime \prime}$
- One Inch
- One Foot (largest distance)


## U. S. Customary Details

## Inches (1") on a section of the ruler



Counted the space which equals the inch unit.

## U. S. Customary Details

## Half - Inches $\left(1 / 2^{\prime \prime}\right)$ on a secion of the ruler



## U. S. Customary Details

## Fourth - $\left(1 / 4^{\prime \prime}\right)$ on a section of the ruler



## U. S. Customary Details

## Eighth - $\left(1 / 8^{\prime \prime}\right)$ ona s scilion of the ruler



## U. S. Customary Details

## Sixteenths - (1/16") on a sccion of the ruluer



## Strategies for reading the ruler

## - TWO WAYS OF LEARNING

## - Traditional \& Patterns

- Traditional
- Fractions and reducing
- Example - Count every line to that point then divide by an even number on the top and bottom if it needs reduced

Count to the whole number for the bottom of the fraction


## Strategies for reading the ruler

## TWO WAYS OF LEARNING

- Traditional
- Fractions and reducing
- Example - Count the lines then divide by an even number on the top and bottom if it needs reduced.

Count to the whole number for the bottom of the fraction


Lets find this point!

## Strategies for reading the ruler

## SECOND WAY OF LEARNING

- Non -Traditional
- Patterns -
- Example - Count only lines that are the length or longer than the destination line.

Count to the whole number for the bottom of the fraction


## Strategies for reading the ruler

## SECOND WAY OF LEARNING

- Non -Traditional
- Patterns -
- Example - Counting patterns will always be in lowest terms. No reducing needed!

Count to the whole number for the bottom of the fraction $\begin{array}{llll}1 & 2 & 3 & 4\end{array}$


One of 4 parts of an inch!

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## Strategies for reading the ruler

## Count whole numbers first!

- Past an inch
- Count whole numbers then the fraction in either method.
- Example -

Count to the whole number for the bottom of the fraction


## Sussissiasy

## TWO Measurement Systems

Metric Each line is a millimeter and every 10 lines is a centimeter.



[^0]:    Lets find this point!

