

Activity 1 3 2 english metric linear measurements answers

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Understanding the English and Metric Systems of Linear Measure

Definition of Linear Measurement

Linear measurement measures the physical distance or length of an object in a straight line.

English System of Measurement

The English system, also known as the imperial system, uses three primary units for linear measurement:

- **Inch (in)** - The smallest unit, equivalent to $\frac{1}{12}$ of a foot.
- **Foot (ft)** - Consists of 12 inches.
- **Yard (yd)** - Comprises 3 feet or 36 inches.

Metric System

The metric system, also known as the International System of Units (SI), has three main metric measurement types for linear distance:

- **Millimeter (mm)** - The smallest unit, equal to $\frac{1}{1000}$ of a meter.
- **Centimeter (cm)** - Equivalent to 10 millimeters or $\frac{1}{100}$ of a meter.

- **Meter (m)** - The base unit of length, consisting of 100 centimeters or 1000 millimeters.

Reading English and Metric Measurements

English Measurement

To read an English linear measurement, simply identify the units used and add them together. For example, "5 ft 3 in" means 5 feet and 3 inches.

Metric Measurement

To read a metric linear measurement, convert the units to the smallest common unit (usually millimeters). For example, "2 m 30 cm" equals 2300 mm.

Converting Linear Measurements

To convert between English and metric units, use the following conversion factors:

- **1 inch = 25.4 millimeters**
- **1 foot = 30.48 centimeters**
- **1 yard = 0.9144 meters**

Accuracy of Linear Measurement

The most accurate method of linear measurement depends on the application and available tools. For precise measurements, consider using calipers or micrometers.

Reading Ruler Lines

To read a ruler line, align the object's edge with the zero mark and read the measurement where the other edge intersects the line.

Differences Between English and Metric Systems

The English system of linear measure is primarily used in the United States, while the metric system is globally accepted. The metric system is based on a decimal system, making it easier to convert between units.

Basic Measurements

The basic measurements for linear distance are length, width, and height. Length refers to the longest dimension of an object, width represents the shortest, and height measures the vertical distance.

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