Imperial Measurements

February 2, 2017 4:14 PM

Imperial Measurements came into being in 1824. They were a standardized version of the Winchester standard units of the 15th century.

Lengths

Inch (in or ")	12 inches = 1 foot
Feet (ft. or ')	3 feet = 1 yard
Yard (yd)	1760 yards = 1 mile
Mile (mi)	5280 ft = 1mi

Examples: Do the following conversions

$$12 in = 1ft = 96 in$$
62 vd to miles

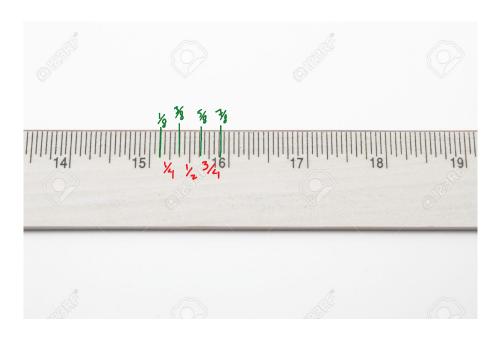
62 yd to miles

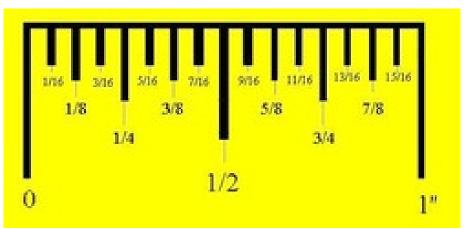
234 yd to feet

5.5 feet to inches

3.5 yards to inches

Using imperial Units on a Ruler





Referents

Inch: width of your thumb

Foot: Approximate out how many of your feet equal 1 imperial foot

1 large foot 1 Buckham Size foot

You try:

Estimate the width of your text book using your thumb.

 \sim 9i

Estimate the length of your desk using your feet.

~ 5FE

Examples

Mr. Horncastles Westy, has wheels that have a diameter of 2.083 ft.

b) What is the circumference in Yards?

6.54Ft, 19d

HW: Ch 1.2 pg 29

b) What is the circumference in Yards?

t is the circumference in Yards?
$$C = 2\pi \Gamma \qquad Z_{\Gamma} = d = 2.083ft \qquad 6.54ft \times \frac{1yd}{3ft}$$

$$= \pi(Z_{\Gamma}) \qquad |yd=3ft|$$

$$= \pi(Z_{\Gamma}) \qquad = 2.18yd$$

$$C = 6.54ft \qquad = 2.18yd$$

HU: Ch 1.2 pg 29

C) How many times will the wheel fully rotate in 1 mile of driving?

$$\frac{176096}{2.1896} = \frac{867 \text{ full rotations}}{2.1896}$$