International System of Units (SI)



Système Internationale d'Unités

"metric"

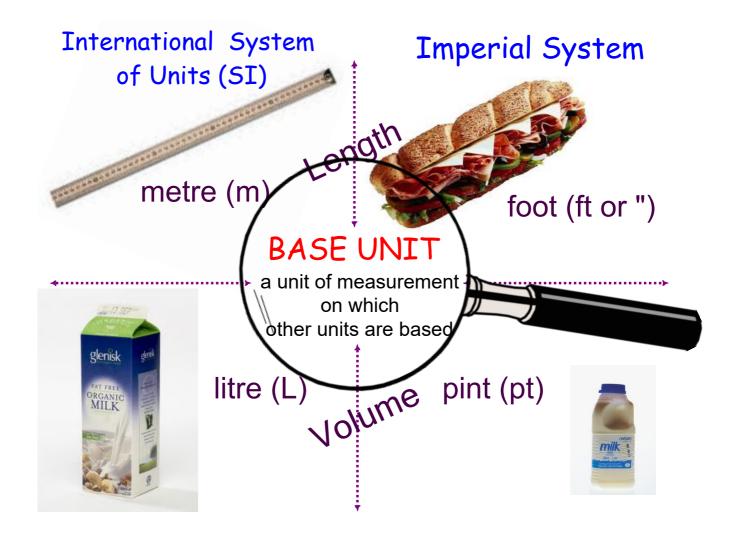


Imperial System
"standard"



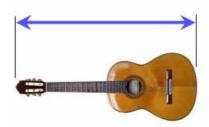






Meter (Metre in UK)

The length of this guitar is about **1 meter**:



Kilogram



This gold bar has a mass of **1 kilogram**.

The Imperial system is NOT a decimal system

Each group of units has a particular relationship.

Some Common Imperial Units	
Length	
Unit	Abbreviation
inch	in or
foot	ft or
yard	yd
mile	mi

Each group of units has a particular relationship.

inch foot yard mile

12 in = 1 foot 3 feet = 1 yard 1760 yards = 1 mile

Imperial CONVERSIONS

Conversion Factor

Number x



Imperial CONVERSIONS

Convert 240" to feet

Conversion Factor =
$$\frac{\text{units you want}}{\text{units you have}}$$

$$= \frac{\text{feet}}{\text{inches}}$$

$$= \frac{1}{12}$$

Number x Conversion Factor

240 × 1/12

= 240/12

= 20



You try:

Perform the following conversions:



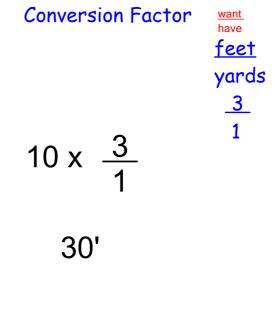
- a) 36 inches to feet
- b) 10 yards to feet
- c) 5000 yards to miles

Perform the following conversions:

a) 36 inches to feet

Conversion Factor want have feet inches $\frac{1}{12}$ $36 \times \frac{1}{12}$ $\frac{36}{12}$ 3'

b) 10 yards to feet



c) 5000 yards to miles ‡

Conversion Factor

want have miles yards
1
1760

$$5000 \times \frac{1}{1760}$$

<u>5000</u> 1760

2.84 mi

Can you see the difference?



 \bigcirc

"Four and one half inches."



 $\left(4\frac{1}{2}\right)^{-1}$

<u>1</u>

"Four FEET and one half inches."



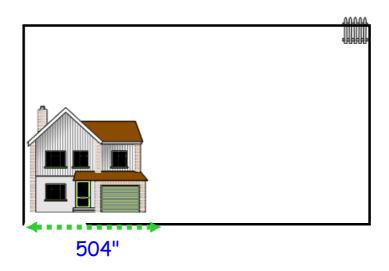


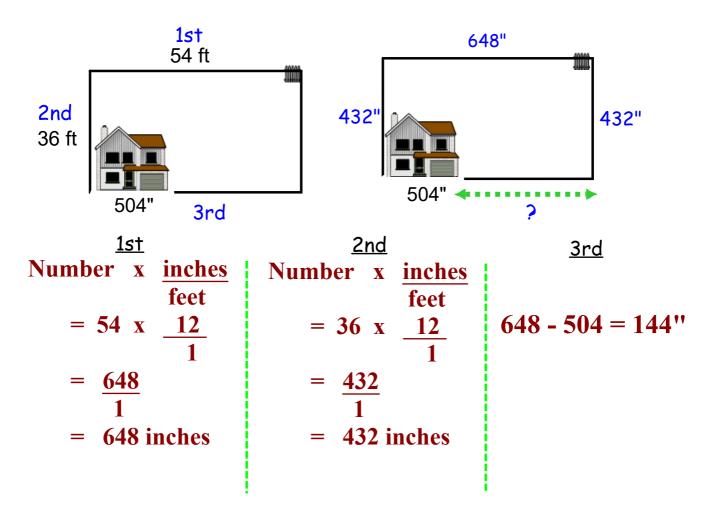
Convert $4\frac{1}{2}$ to inches $4 \times \frac{\text{Want}}{\text{Have}}$ $4 \times \frac{\text{Inches}}{\text{Have}}$ $4 \times \frac{1}{2}$ $4 \times \frac{1}{2}$

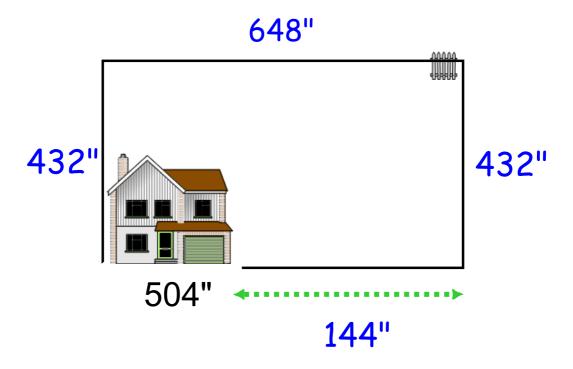
Homework Finish Worksheet

Kiri needs to replace the wooden fence that surrounds her yard. She measured her property, and it is 54 feet wide and 36 feet deep. There is no fence in front of her house, and the gap in the fence at the front of the property is 504 inches, as shown in the diagram.

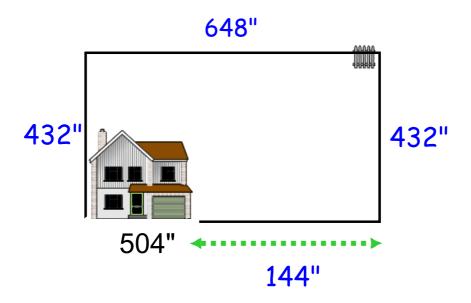
Label the diagram below in inches.



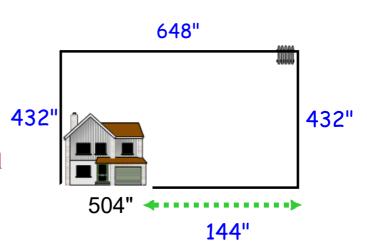




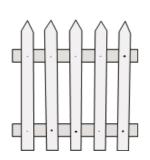
Determine the distance required to fence.

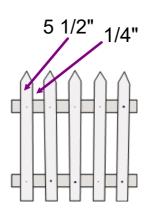


Kiri plans to replace the existing fence pickets with 5-foot-long cedar boards placed vertically. The boards are 5 1/2 inches wide and will be spaced 1/4 inch apart.



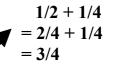
Label the fence below.

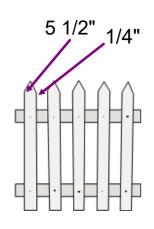




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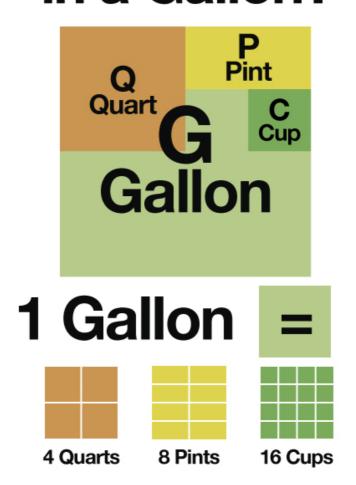
How many cedar boards are required?





1656 / 5.75 = 288 Boards

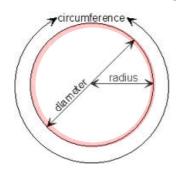
How Many Pints in a Gallon?



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Page 151 Questions 1 to 6 as well as #8 Hang on there...

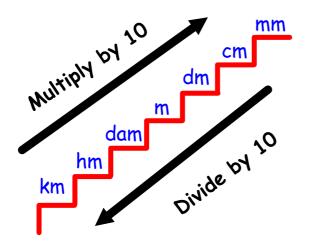
other than perimeter you will need to remember another formula to complete the assigned questions.



$$C = \pi d$$

$$C = \pi d$$
$$C = 2\pi r$$

The SI is a decimal system based on multiples of 10



- a) 130 cm = _____ m
- b) _____ g = 150 mg
- c) 60 L = ____ml
- d) 3.25 km = ____cm
- e) _____ g = 0.68 kg

km hm dam m dm cm mm kl hl dal L dl cl ml kg hg dag g dg cg mg