

"I got you ten roses. I believe strong relationships are based on the metric system."

International System of Units (SI)



Système Internationale d'Unités

"metric"

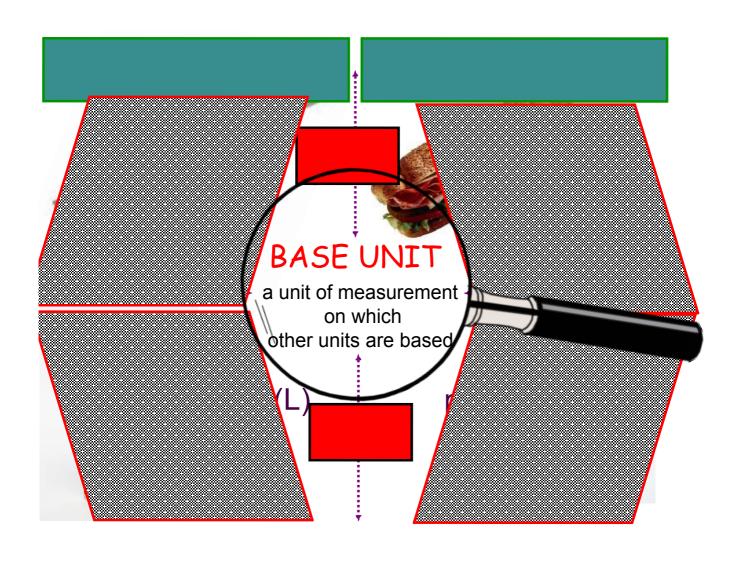


Imperial System "standard"

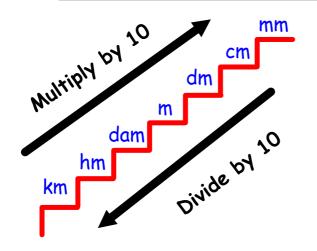








The SI is a decimal system based on multiples of 10

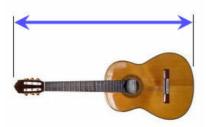


- a) 130 cm = _____ m
- b) _____ g = 150 mg
- c) 60 L = ____ml
- d) 3.25 km = ____cm
- e) _____ g = 0.68 kg

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

Meter (Metre in UK)

The length of this guitar is about 1 meter:



Kilogram



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

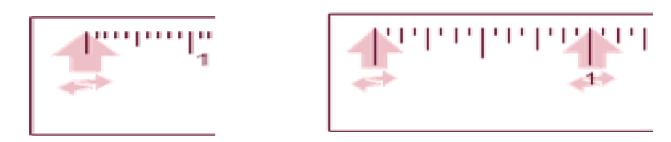
The Imperial system is NOT a decimal system

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



Take a closer look!!



Test drive!!



Find the measurements of your desk in imperial units.

Your mission!!



With your partner...

Determine the length of the following items:

- 1. Small red brick
- 2. Larger brick on the wall
- 3. Height of a door handle
- 4. Tile on the floor.
- 5. Five other items in the lobby area only!! Once you are finished... take a seat in the lobby.

For every item please sketch the item and label the dimensions

Challenge another group to measure your five items... do you get the same measurements?

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 units you want units you have

Imperial CONVERSIONS

Convert 240" to feet

Conversion Factor = ____

= ___

Number x Conversion Factor

X

=

=



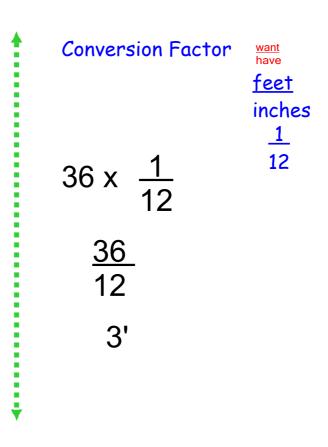
You try: Perform the following conversions:



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

Perform the following conversions:

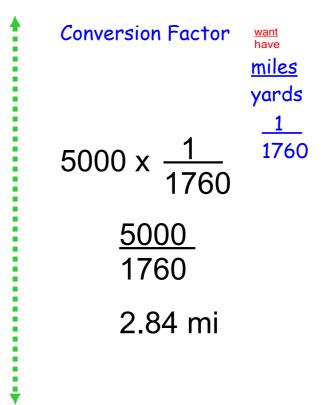
a) 36 inches to feet



b) 10 yards to feet

Conversion Factor
$$\frac{\text{want}}{\text{have}}$$
 $\frac{\text{feet}}{\text{yards}}$ $\frac{3}{1}$ $\frac{3}{1}$

c) 5000 yards to miles



Can you see the difference?





"Four and one half inches."



$$4\frac{1}{2}$$

$$4^{\frac{1}{2}}$$

"Four FEET and one half inches.



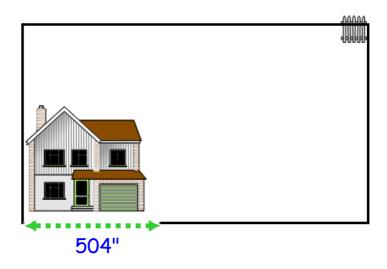
Convert $4\frac{1}{2}$ to inches

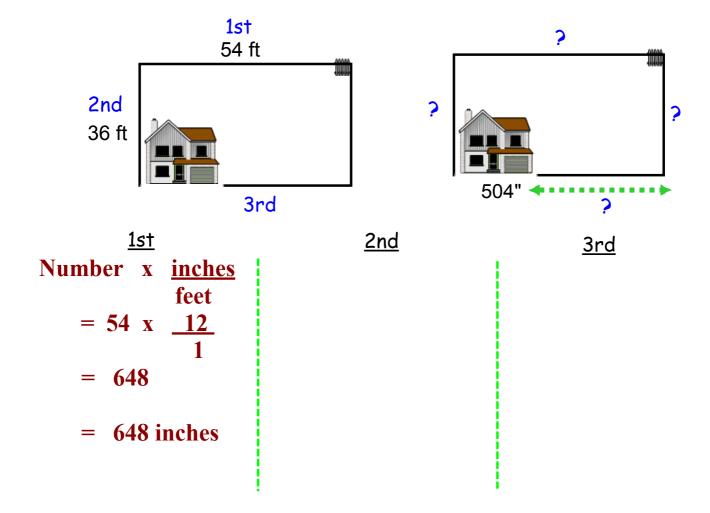
Number x want have have have
$$4 \times 12$$
 inches feet 4×12 = 48 "

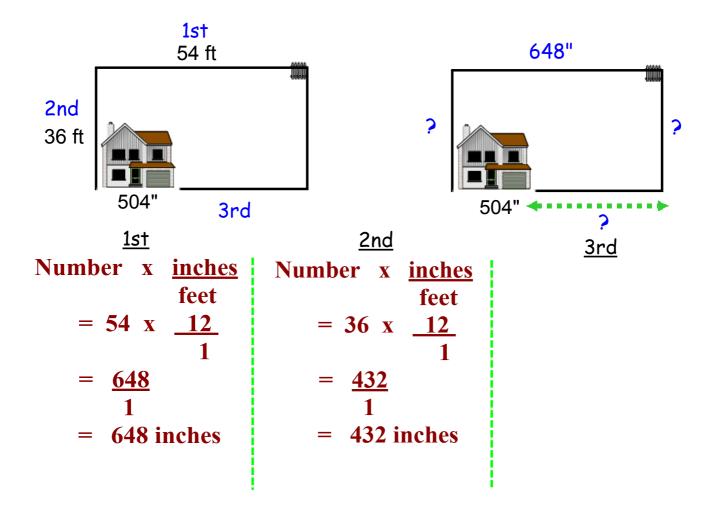


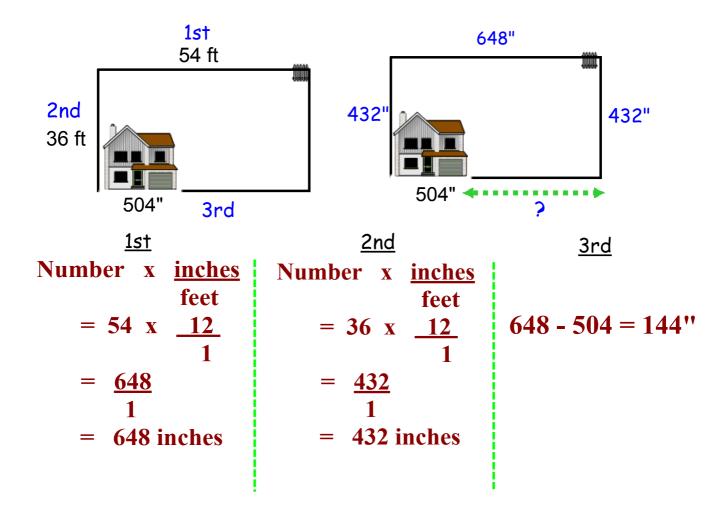
Kiri needs to replace the wooden fence that surrounds her yard. She measured her property, and it is 54 feet wide and 36 feet deep. There is no fence in front of her house, and the gap in the fence at the front of the property is 504 inches, as shown in the diagram.

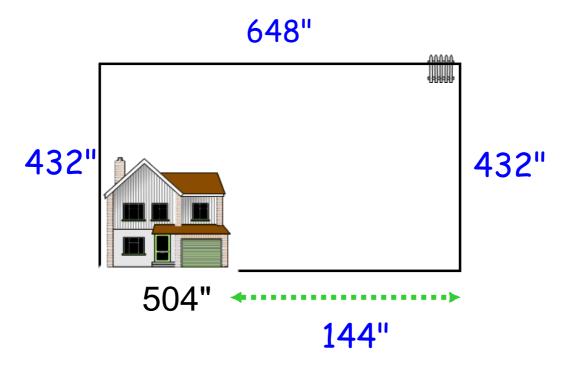
Label the diagram below in inches.



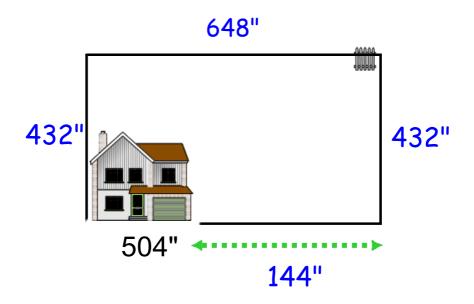




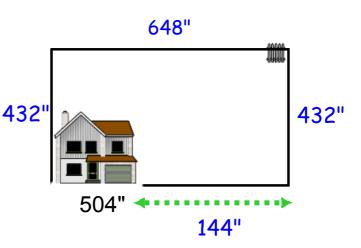




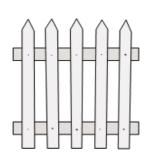
Determine the distance required to fence.

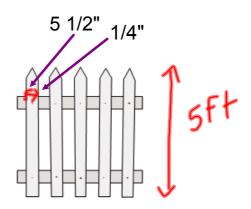


Kiri plans to replace the existing fence pickets with 5-foot-long cedar boards placed vertically. The boards are 5 1/2 inches wide and will be spaced 1/4 inch apart.



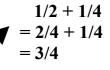
Label the fence below.

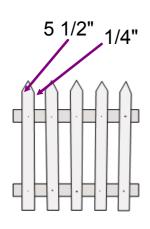




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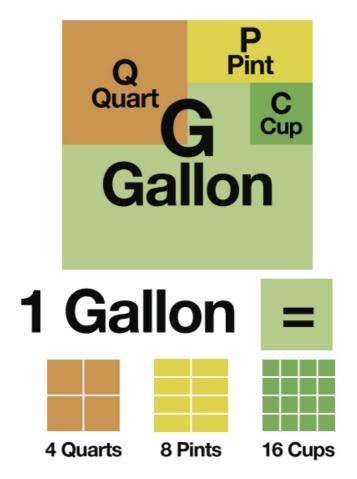
How many cedar boards are required?





1656 / 5.75 = 288 Boards

How Many Pints in a Gallon?

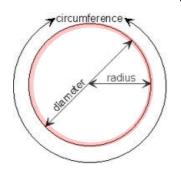


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Page 151 Questions 1 to 6 as well as #8

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



$$C = \pi d$$

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