# Adding with Unlike Denominators

Taking what we already know and using it to help us solve something new!

Deb Hill: LFES

### Adding Fractions

Don't forget to update your
 Table of Contents

• On your new page write the following problems if you have not already done so.

## Adding Fractions with Unlike Denominators

$$1.1/16 + 1/4 = ____$$

$$2.1/8 + 1/4 =$$

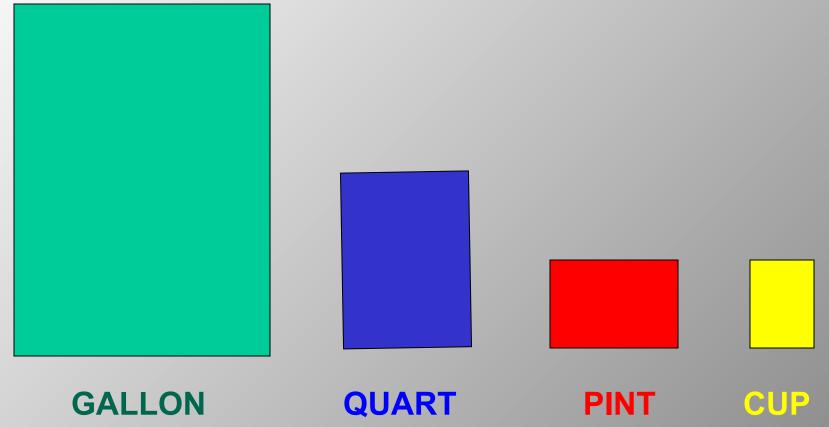
$$3.1/8 + 1/16 =$$

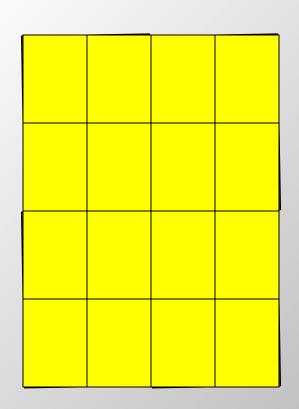
# You already know the answers

Let's think back to...

## Gallon Man!

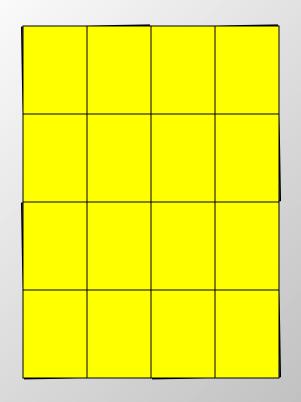
#### Remember?





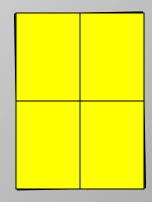
## Here is the way they "stack-up."

1 Gallon





- 1 Gallon = 4 quarts
- 1 Gallon = 8 pints
- **1 Gallon = 16 cups**



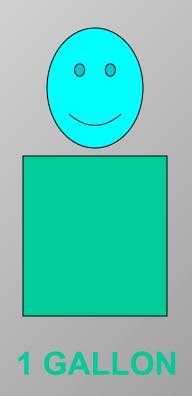
- 1 Quart
- 1 Quart = 2 pints
- 1 Quart = 4 cups



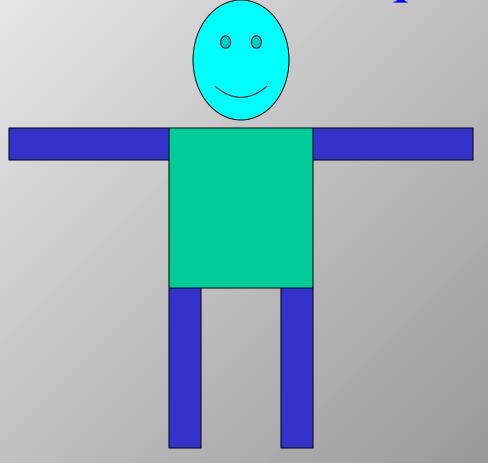
1 Pint

**1 Pint = 2 cups** 

## Remember how we built "Gallon Man?"

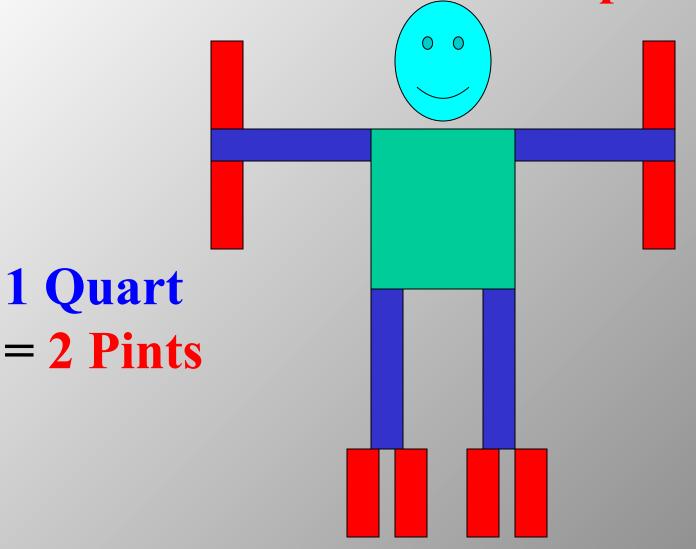


"Gallon Man" and quarts

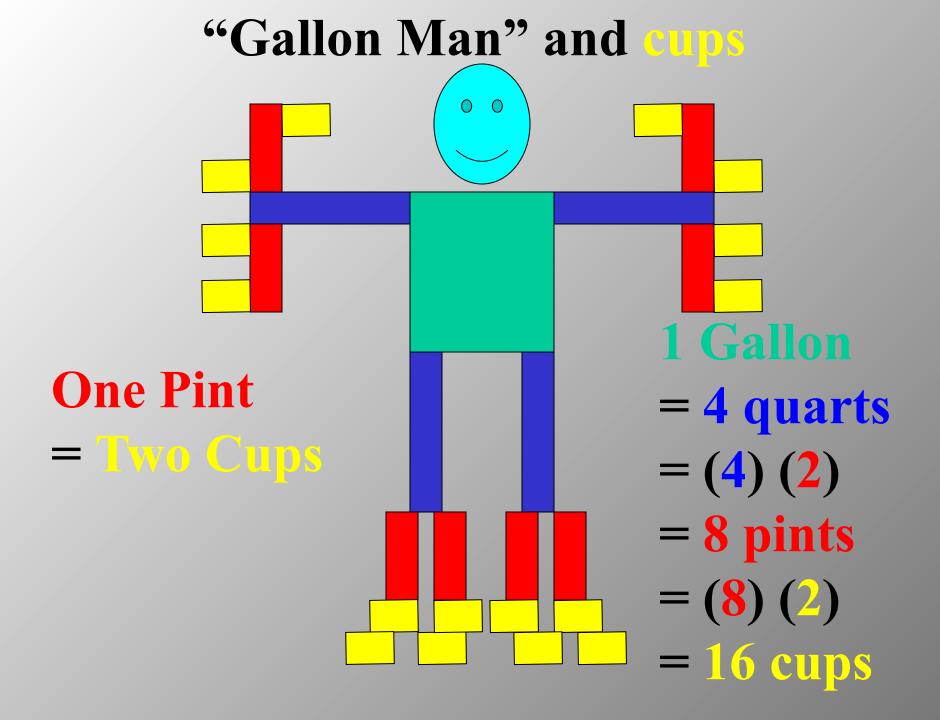


One Gallon = Four Quarts

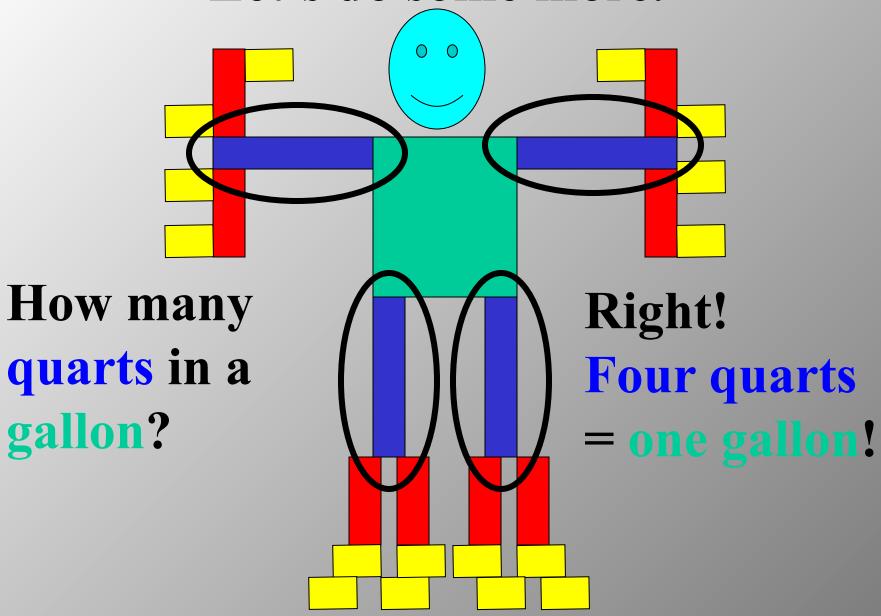
"Gallon Man" and pints

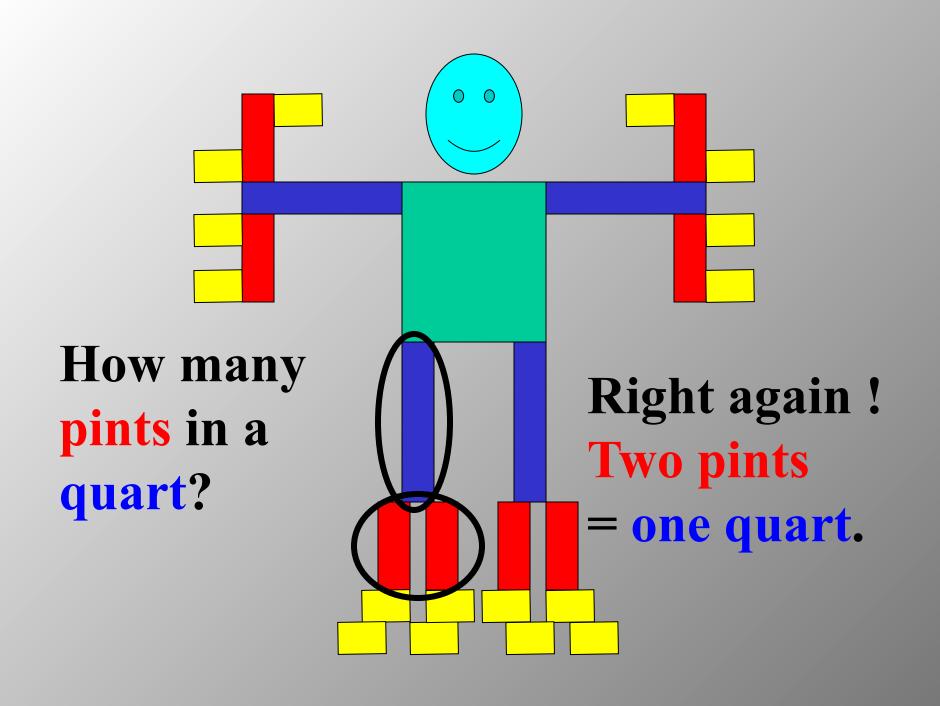


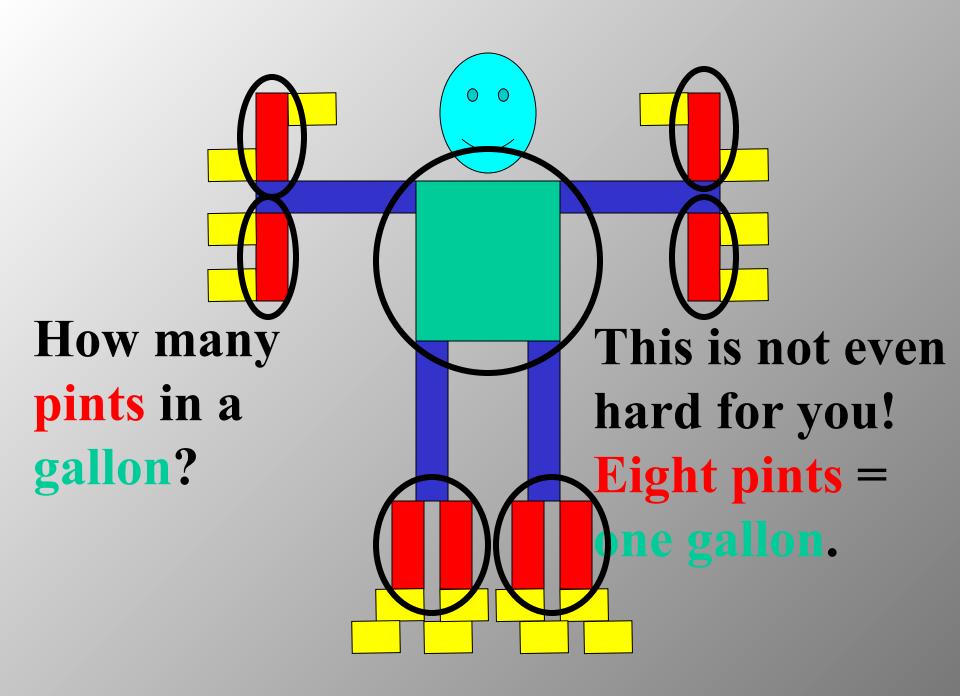
1 Gallon = 4 quarts = (4)(2) = 8 pints

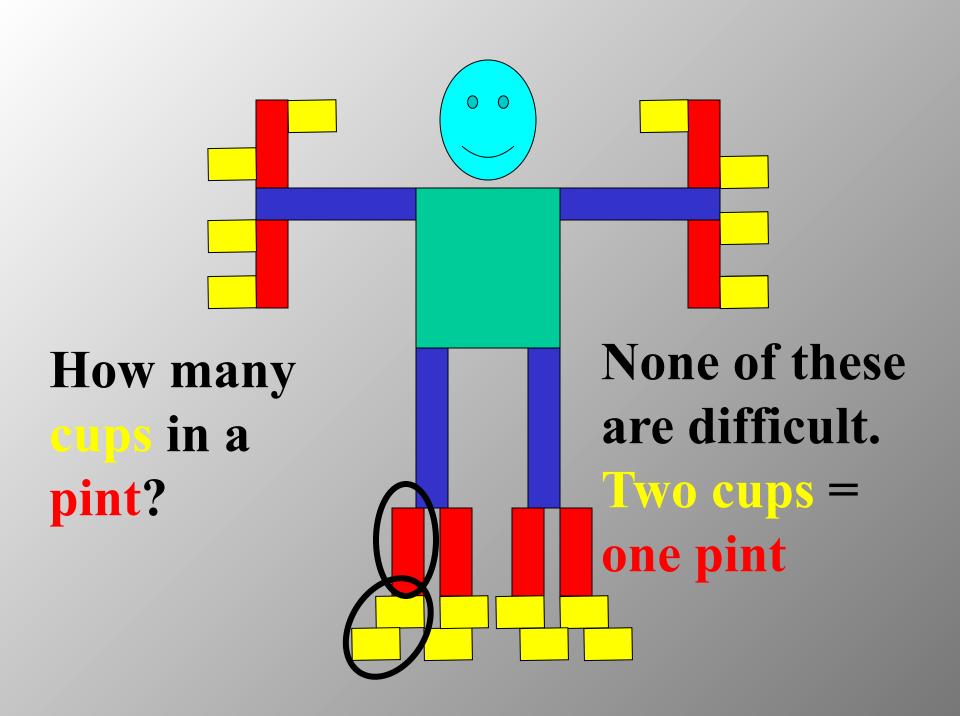


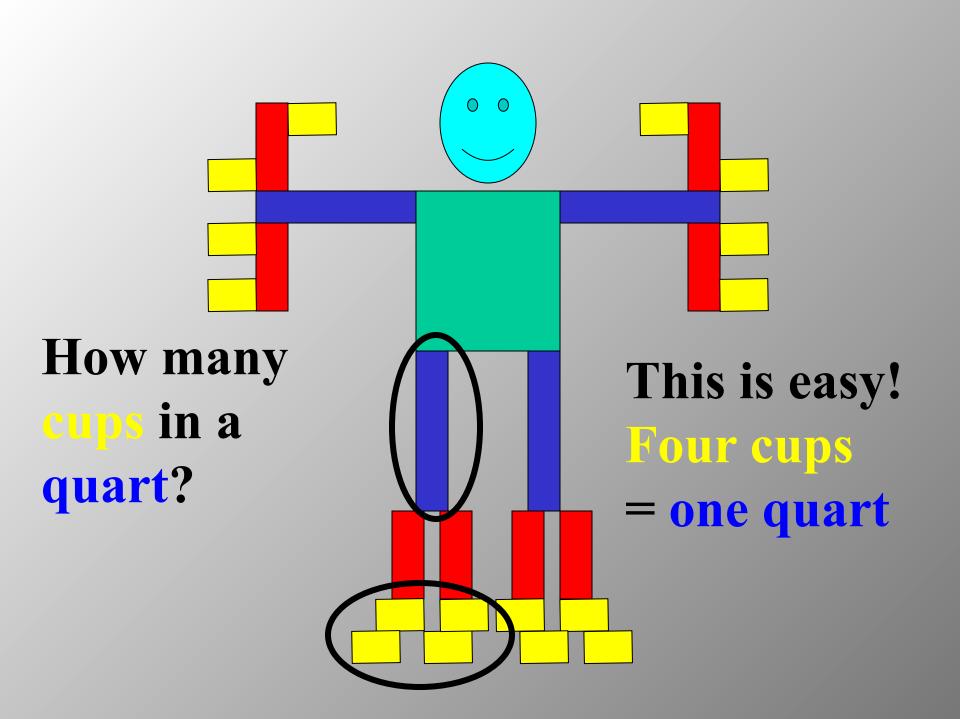
#### Let's do some more.

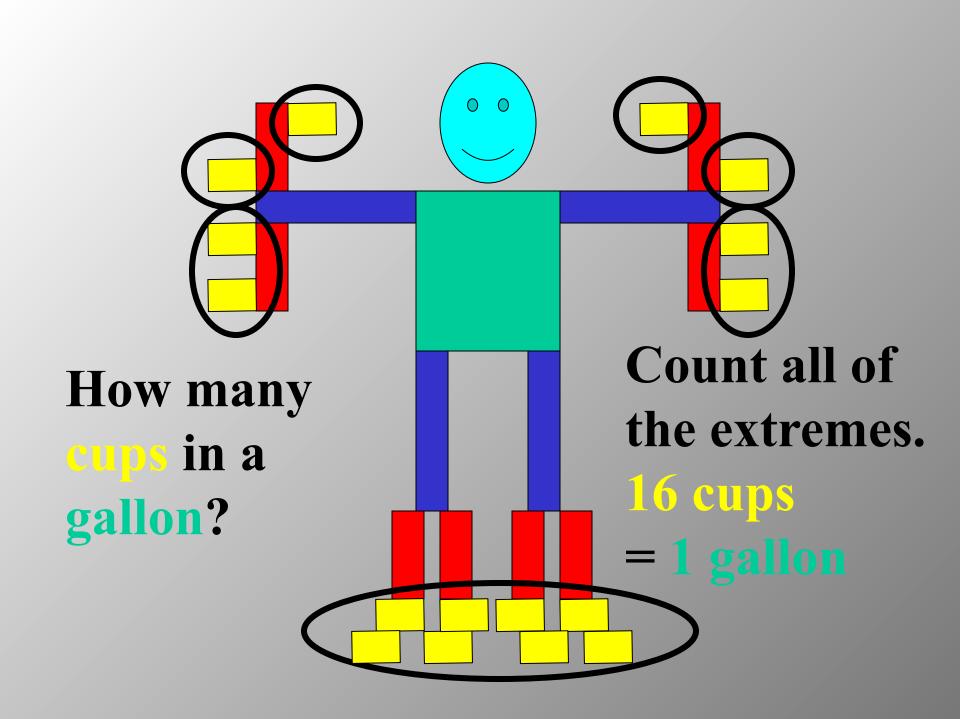




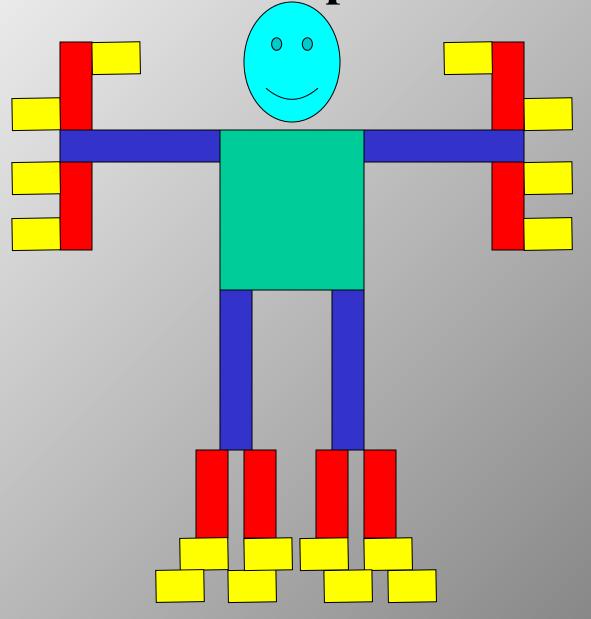








Gallon Man can help us some more.



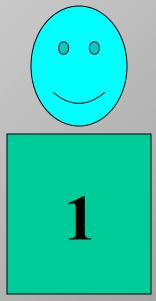
You know the Gallon Man along with all of his parts: quarts, pints, and cups. Let' draw another gallon man and label his parts using

fractions.

## This turns Gallon Man into...

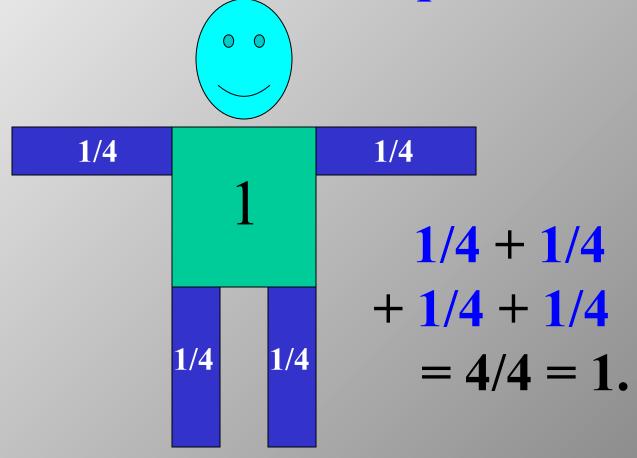
# Fraction Friend!

# We built "Fraction Friend" exactly the way we built "Gallon Man."



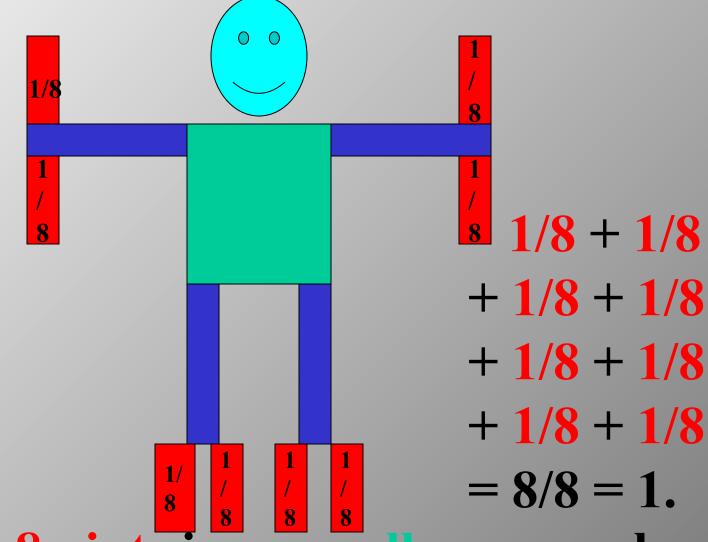
One gallon = One whole

"Fraction Friend" and quarters



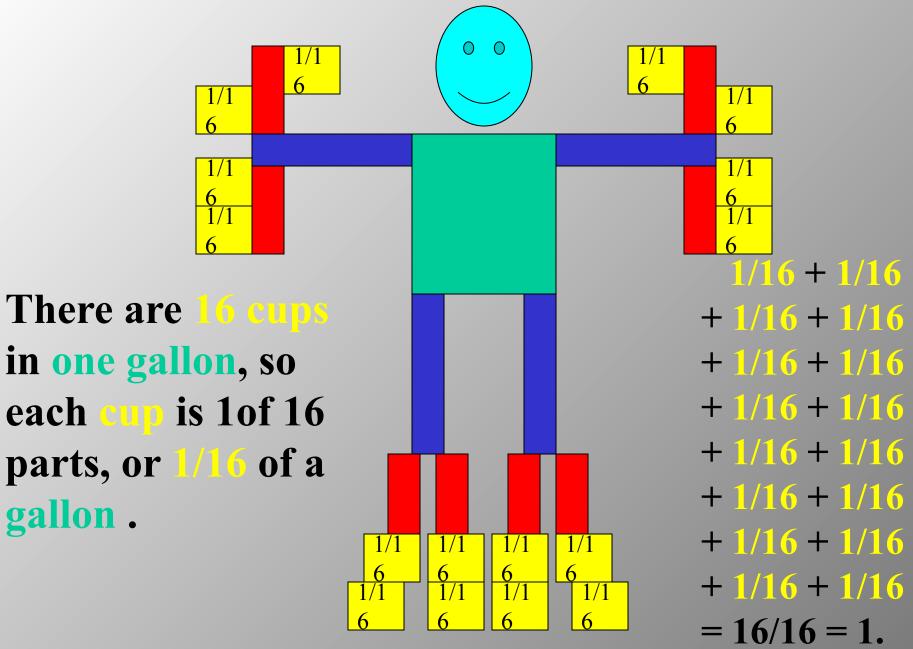
One gallon = 1 whole
There are 4 quarts in one gallon, so each
quart is 1 of 4 parts, or 1/4 of a gallon.

"Fraction Friend" and eights

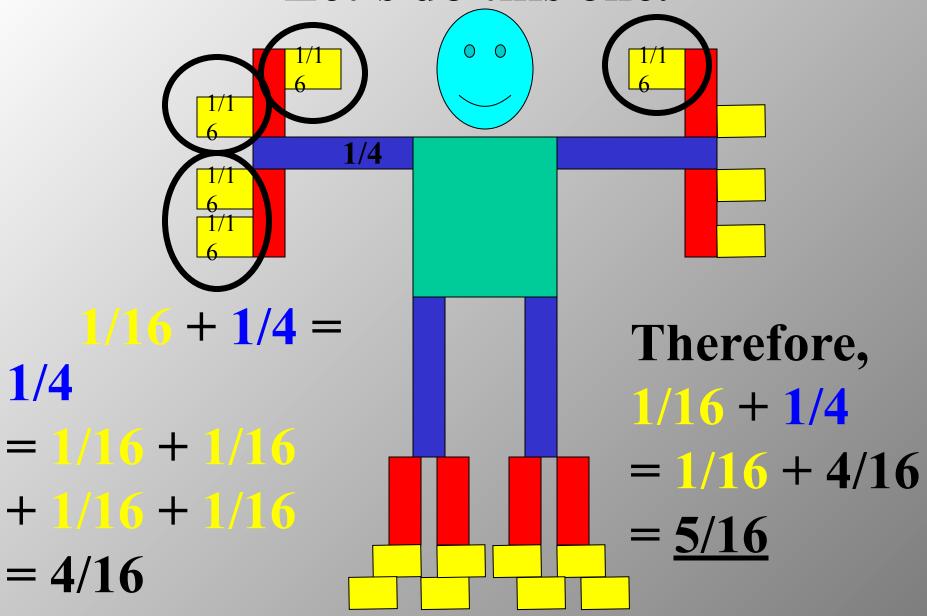


There are 8 pints in one gallon, so each pint is 1 of 8 parts, or 1/8 of a gallon.

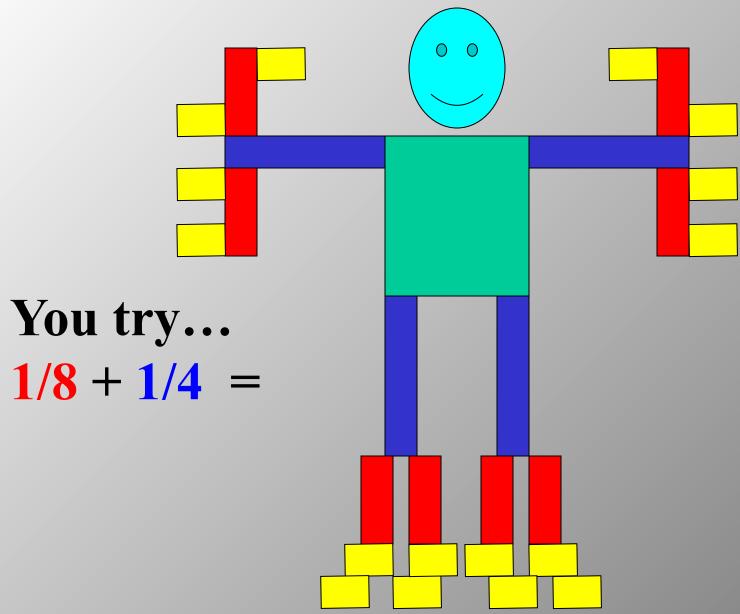
#### "Fraction Friend" and sixteents

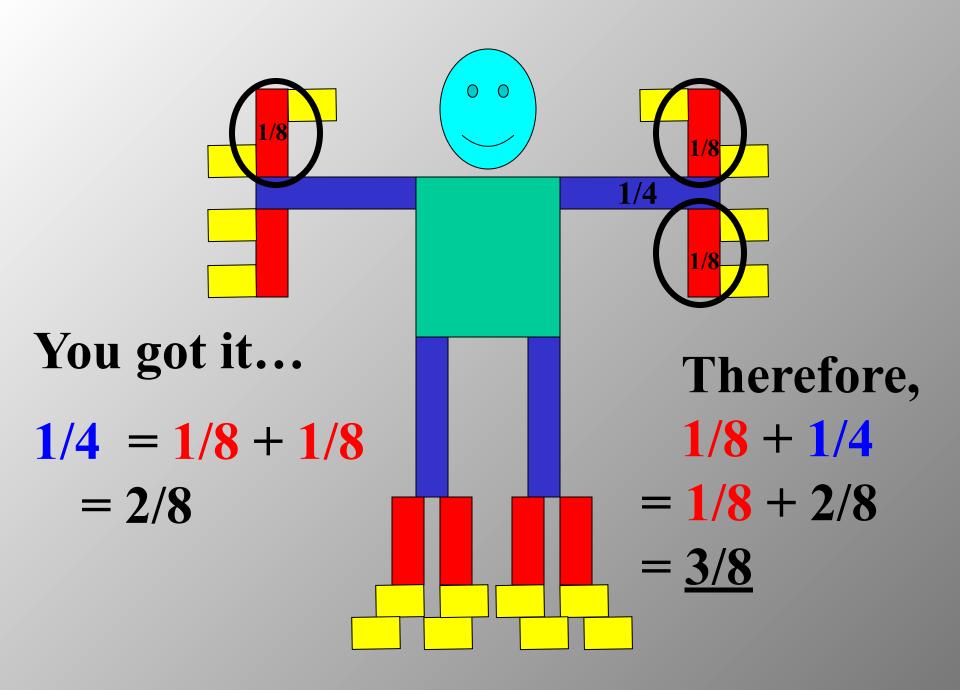


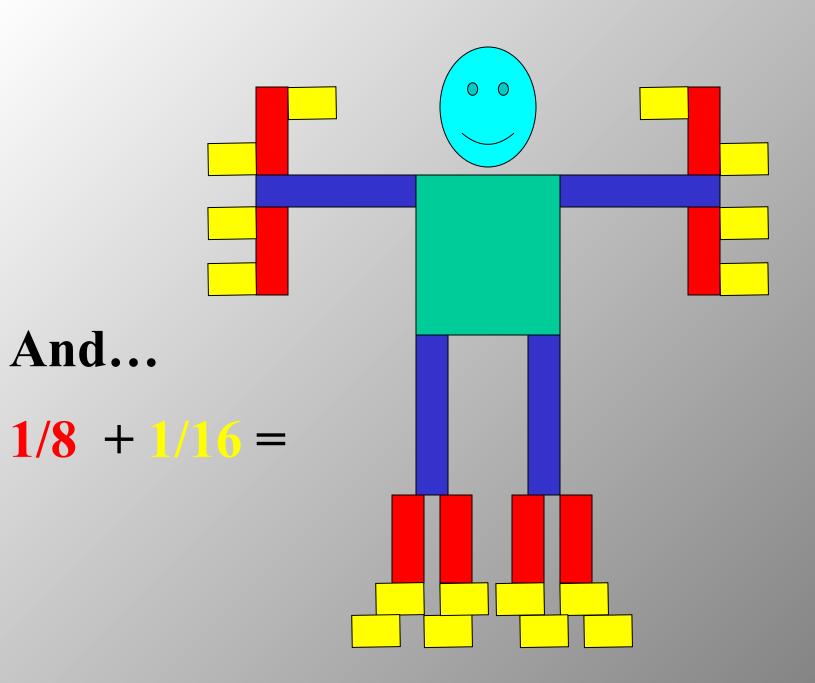
#### Let's do this one.

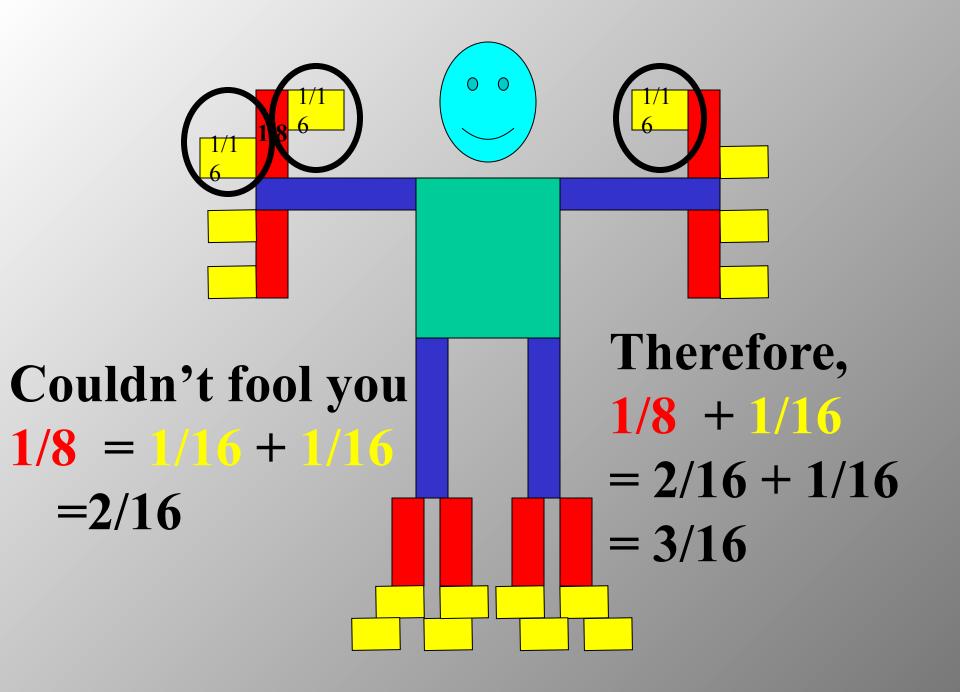


#### Here's another one.









The Gallon Man helps us remember: quarts, pints and eups.

Fraction Friend helps us with: quarters, eights and sixteenths.

Now let's see if we can apply what we have learned from Fraction Friend to fractions with other denominations.