

Conversion

Wednesday 10/22/08

Name:
Homeroom:
Mr. Z.'s Science Class
10/22/08

Do-Now: Coin Conversions

- Suppose that you have six quarters. How many is that of...
 - ... pennies?
 - ... nickels?
 - ... dimes?

I can convert a measurement into different units

- In order to convert a measurement into different units, I need to know...
- We will work together as a class to figure out how many of one liquid measure are equal to another. Record below what we find out.

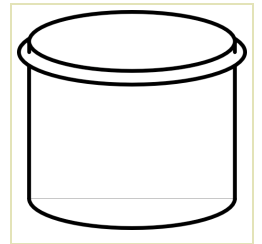
1 gallon = _____ quarts

1 quart = _____ pints

1 pint = _____ cups

Using conversion rates for liquid measures

- How many cups are there in a gallon?
- For the blue tupperware we are using in class...
 - How much does it hold in cups?
 - Show below how to convert some of those cups into bigger units.



Conversion cards game

Use the conversion cards to find the answer to each of the following:

- 1 cup, 1 pint, and 1 quart in cups =
- 3 cups, 2 pints, and 2 quarts in cups =
- 2 cups, 3 pints, and 1 quart in pints =
- 4 cups, 1 pint, and 2 quarts in pints =
- 8 cups, 2 pints, and 1 quart in quarts =
- 2 cups, 3 pints, and 3 quarts in quarts =
- 6 cups, 1 pint, and 2 quarts in gallons =
- 5 quarts, 5 pints, and 2 cups in gallons =

Conversion Practice

How many cups is that?

Please record your work mathematically. For example, you might write:

3 pints + 1 quart = 7 pints = 14 cups

You will not get credit for just an answer.

1. If I have three pints, how many cups is that?
2. If I have two quarts, how many cups is that?
3. If I have a pint and two quarts, how many cups is that?
4. If I have three cups, two pints, and one quart, how many cups is that all together?
5. How many cups is one gallon?

How can I use the least units?

Please record your work mathematically. For example, you might write:

11 cups = 1 cup + 5 pints = 1 cup + 1 pint + 2 quarts

You will not get credit for just an answer.

6. If I have to measure out 8 cups, how can I do that using the least number of units?
7. If I have to measure out 7 cups, how can I do that using the least number of units?
8. If I have to measure out 13 cups, how can I do that using the least number of units?
9. If I have to measure out 27 cups, how can I do that using the least number of units?



1 cup



1 pint



1 quart



1 gallon