

Rules to Change Units of Measurement

(Algebra)

1. Find patterns

Example:

Quarts	1	2	3	4
Pints	2	4	6	8

To change quarts to pints, count by 2's

2. **Always Ask:** Is the chart, pattern, or answer logical? Does it make sense?

3. Know your basic units of measurement!

Length & Distance	12 inches = 1 foot	3 feet = 1 yard
	1 yard = 36 inches	1 mile = 5,280 feet
Capacity	2 cups = 1 pint	2 pints = 1 quart
	4 cups = 1 quart	4 quarts = 1 gallon
	16 cups = 1 gallon	8 pints = 1 gallon
Mass & Weight	16 ounces = 1 pound	

4. Make equivalent fractions

Example: $\frac{1 \text{ yard}}{3 \text{ feet}} = \frac{4 \text{ yards}}{12 \text{ feet}}$

5. Make a TABLE

Change 5 quarts into pints.

5 quarts = ____ pints

Quarts	1	2	3	4	5
Pints	2	4	6	8	10

6. Know the rules...

Multiply – when you change a larger unit into a smaller unit

Example: change **yards** to **inches**

change **gallons** to **pints**

Divide – when you change a smaller unit into a larger unit

Example: change **inches** to **feet**

change **cups** to **quarts**