

# Units & Systems: Design Challenge

## Units in the Marketplace

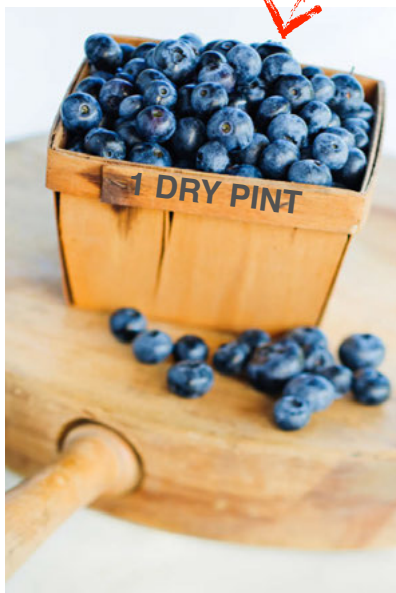
### Blueberry Farmer Embraces Standard Units of Measurements Thanks to Studious Daughter

Back in 1916, there was a blueberry farmer who sold his blueberries by the blueberry. This turned out very badly for him. He spent more time counting out blueberries for his customers than he spent growing them!

One day, exhausted, he sat down next to his daughter who was doing her homework (see right). He watched her work through a section in her lesson book called "Dry Measure" and got very excited.

He knew what a pint was because his beer came in pints. He learned from the diagram that a dry pint was a box or basket that would hold the same amount of blueberries each time he filled it up. He could sell pints instead of single berries!! Maybe he could even try selling quarts during the peak of the growing season!

Not only that, he noticed that there were other dry measures. His daughter told him that everyone in the city was already familiar with these **units**.



THE NEW STUDENT'S REFERENCE WORK 2183

EXERCISE 24.

1. How many cubic feet of earth will be removed in digging a cellar 18 ft. by 12 ft. by 8 ft.?
2. What will it cost at 65¢ a cubic yard?
3. The dimensions of a room are 15 ft., 14 ft. and 9 ft. How many square feet of floor? Of walls? Of ceiling? How many cubic feet of volume?

COUNTING.

|                            |                                   |
|----------------------------|-----------------------------------|
| 12 things = 1 dozen (doz.) | Paper Table.                      |
| 12 dozen = 1 gross (gr.)   | 24 sheets = 1 quire.              |
| 12 gross = 1 great gross.  | 20 quires or 480 sheets = 1 ream. |
| 20 things = 1 score.       | 2 reams = 1 bundle.               |

CAPACITY.

Liquid Measure.

|                              |   |
|------------------------------|---|
| 4 gills = 1 pint (pt.)       | 2 pints (pt.) = 1 quart (qt.)           |
| 2 pints = 1 quart (qt.)      | 8 quarts = 1 peck (pk.)                 |
| 4 quarts = 1 gallon (gal.)   | 4 pecks = 1 bushel (bu.)                |
| 1 gallon = 231 cubic inches. | 10 pecks, 2½ bushels = 1 barrel, (bbl.) |
|                              | 1 bushel = 2150.42 cu. in.              |

This is a scanned image from *The New Student's Reference Work*, 5 volumes, Chicago, 1914, edited by Chandler B. Beach.