

Math Connection Worksheet:

Name(s) : _____

Dates: _____

Information needed to answer the following six (6) questions:

12 ounces of sugar rationed per person per week in 1943.

7 oz. (ounces) of sugar = 1 cup of sugar.

~*1 ½ cups of syrup are needed to can 1 quart of canned fruit.

Syrups:

Thin: 2 cups sugar and 4 cups water (makes about 5 cups of syrup)

Medium: 3 cups sugar and 4 cups water (makes about 5 ½ cups of syrup)

Heavy: 4 ½ cups sugar 4 cups of water (makes about 6 ½ cups of syrup)

3 lbs (pounds) pears is needed for 1 quart of canned pears

One bushel of pears produces 24 qts (quarts) canned pears

52 weeks are found in one year

(*Note, the symbol ~ means approximate, not an exact amount)

For the section called "Communication from Mrs. George Buckley Concerning Sugar Rationing" answer questions 1-3. Questions 4-6 can be done on a different day.

1. If about 3 pound of pears makes one quart of canned pears, how much cups of sugar would it take to can a quart of pears using a thin syrup solution?

A bushel of pears can produce 24 quarts of canned pears, how much sugar in cups would you need?

[Extra credit: how many pounds of sugar would the bushel of pears need for canning?]

2. How many pound of pears would you use to can a bushel of pears?

3. How many weeks of sugar rationing in 1943 would one person have to save up to have enough sugar to can a bushel of pears?

Additional math problems:

4. If a batch of oatmeal cookies or brownies uses 2 cups of sugar, could a family of 3 make brownies each week (remember, dad's at war so it is you and sis and mom)?

5. How many cups of sugar would your family of three have left for the week?

Can you imagine using this little to sugar your lemonade, breakfast cereal, and any other sweet item for the whole week for 3 people?

6. How much sugar could a person get a year in 1943? If people today consume over 149 lbs of sugar a year, was percent of today's sugar were people in 1943 consuming?

Answers:

1- about 0.6 cups of sugar (a little more than $\frac{1}{2}$ cup)
14.4 cups (almost $14\frac{1}{2}$ cups)
[Extra credit: 10.8 pounds]

2- 72 lbs.

3- 8.4 weeks.

4- Yes, they could make a batch a week and still have some sugar left over.

The family would have 36 oz. of sugar for the week ($12 \times 3 = 36$ oz), they need 2×7 oz = 14 oz in all for the brownies or oatmeal cookies.

5- leaving a little over 3 cups of sugar for the rest of the week

(36 oz - 14 oz = 22 oz, and 7 oz = 1 cup sugar) of sugar left for the week.

6- 39 lbs of sugar a year.

26.2 % of what we consume today was allotted in 1943; or they consumed about a quarter of sugar in 1943 as we do on average today.