Lemonade Stand

Tara and Peter decided to earn some money by selling lemonade. They tried different recipes for fresh lemonade. Then they decided on their favorite.

Homemade Lemonade

Ingredients
Juice from 8 lemons
2 quarts of cold water
2 cups sugar

Instructions
1. Combine all ingredients in a large (2-quart) pitcher.
2. Stir well to dissolve the sugar completely.
3. Pour over ice cubes.

Makes one 2-quart pitcher.

1. Draw a picture about the number of lemons Tara and Peter will need to make four pitchers of lemonade.

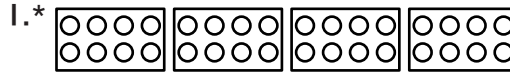2. Write a number sentence for your picture. Be ready to explain what each of the numbers in your sentence means.

Use the Lemonade Stand Data Table and the Lemonade Stand Graph to find out how many lemons Tara and Peter will need for their lemonade stand. They are both in the *Making Lemonade* pages in the *Student Activity Book*.

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Questions 1–2

1.*

2.* Possible response:
   $8 + 8 + 8 + 8 = 32$ or
   4 pitchers $\times$ 8 lemons = 32 lemons

Homework

Tara and Peter are trying to decide how much to charge for each cup of lemonade. They made a chart to help them decide.

Use this chart to solve Questions 1–6.

For 1 pitcher of lemonade, we need 8 lemons and 2 cups of sugar.

Peter

Ingredient	Cost
Lemons	35¢ each
Sugar	20¢ per cup of sugar
Paper Cup	2¢ each
Water	free

16 cups in 2 quarts

1. How much does it cost to buy the lemons you need for one pitcher of lemonade?

2. How much does it cost to buy enough cups for one pitcher of lemonade? (Hint: There are 16 cups in one 2-quart pitcher.)

3. A. How much does it cost to make one pitcher of lemonade?
   B. Show or tell how you found your answer.

4. A. How much does it cost to make each cup of lemonade, including the cost of a paper cup?
   B. Show or tell how you found your answer.

5. Tara and Peter decide to sell each cup of lemonade for 10¢ more than it costs to make. How much profit will they make on one pitcher of lemonade? Their profit is the money left over after they have paid for the lemons, cups, and sugar.

6. A. How many cups of lemonade will Tara and Peter need to sell to make a $2.00 profit?
   B. Show or tell how you found your answer.

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Questions 1–6

1. $2.80

2. 32¢

3. A. $3.20
   B. I added.
      $2.80 + 20¢ + 20¢ = $3.20 per pitcher

4. A. 22¢ per cup
   B. Each pitcher costs $3.20. I know there are 16 cups in each pitcher. I know there are two 16s in 32, so there are twenty 16s in 320. Each cup is 20 cents plus 2 cents more for the paper cup.

5. They will make $1.60 profit on each pitcher.

6. A. They will need to sell 20 cups of lemonade to make a $2.00 profit.
   B. I skip counted by 10¢ until I got to $2.00 and found they would need to sell 20 cups.

*Answers and/or discussion are included in the lesson.