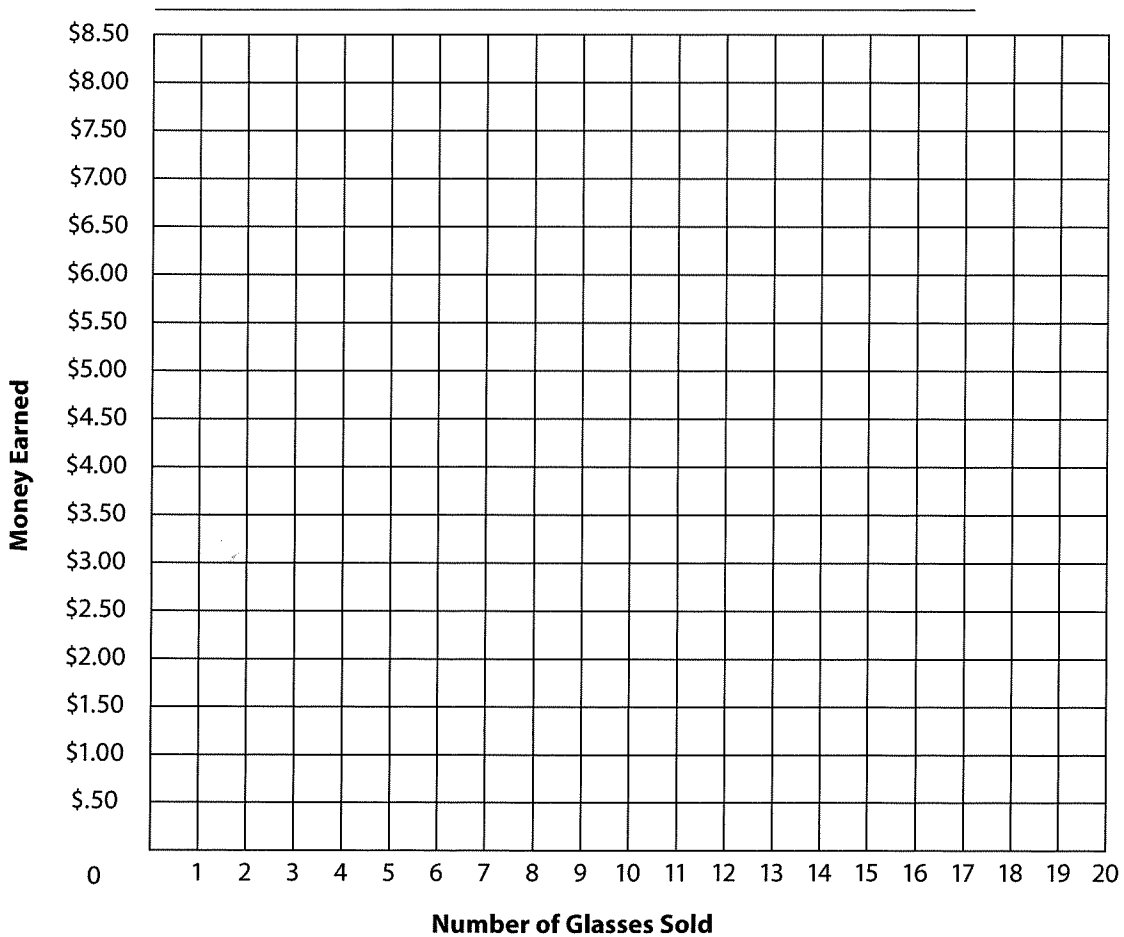# 🏠 The Lemonade Stand page 1 of 4

Troy and his little sister are going to sell lemonade to earn money for the wildlife refuge near their home. Troy's parents have agreed to pay for the ingredients and the cups. The kids are going to charge 50¢ a glass for their lemonade.

1 Fill in the table below to show how much money they'll earn.

Number of glasses sold	1	2	3		5		7	8	9	
Money earned	$0.50		$1.50			$3.00				$5.00

2 Use the grid below to graph the amount of money they'll earn as they sell glasses of lemonade. Give your graph a good title.

Money Earned

$8.50
$8.00
$7.50
$7.00
$6.50
$6.00
$5.50
$5.00
$4.50
$4.00
$3.50
$3.00
$2.50
$2.00
$1.50
$1.00
$.50

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

Number of Glasses Sold

(continued on next page)

NAME | DATE

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3 Why do the points on the graph form a straight line?

4 The first day they opened their lemonade stand it was really hot. Troy and his sister sold 24 glasses of lemonade between noon and 3:00 pm. How much money did they make? Show your work.

5 Between 1:00 pm and 5:00 pm on the second day, they made $14.50. How many glasses of lemonade did they sell during those 4 hours? Show your work.

(continued on next page)

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6 What do you have to do to figure out how much money they'll earn for selling any number of glasses of lemonade? Give your answer in words, and then write an equation to match.

7 Their goal is to earn $75.00 for the wildlife refuge. How many glasses of lemonade will they need to sell to reach their goal? Show your work.

8 Here is a recipe for 1 glass of lemonade:

$1\frac{1}{2}$ tablespoons lemon juice

$\frac{1}{4}$ cup sugar

1 cup of water

The pitcher the kids were using held 8 glasses of lemonade. How much lemon juice, sugar, and water did it take to make enough lemonade to fill the pitcher?
Show your work.

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9 <u>CHALLENGE</u> Use your answer to problem 7, along with the information below, to figure out how much it cost Troy's parents to buy the ingredients for all the lemonade they sold. (The kids did reach their goal of earning $75.00 exactly.) Show all of your work.

- A 1-quart bottle of lemon juice costs $2.95.
- There are 16 tablespoons in a cup and 4 cups in a quart.
- A 5-pound bag of sugar costs $3.29.
- There are $11\frac{1}{4}$ cups of sugar in a 5-pound bag.