

Analyze the Graph – Make a Decision

You have surveyed boys and girls to learn about the desserts they like. Now you need to study the information to make a decision about what item to sell at the bake sale. You will want to pick the item that will be most popular to purchasers.

There are different problem solving strategies you can use to help you make a decision. Try the one that works best for you!



Problem Solving Strategy: Look for Similarities

1. Look at the comparison graph. What dessert do boys like the most?

2. Look at the comparison graph. What dessert do girls like the most?

3. Is the dessert item that boys and girls like the most the same or different?



If the answer to Question 3 was **Boys and Girls like the same dessert**, then you have found the item to sell at the bake sale!

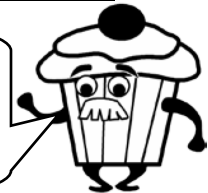
If the answer to Question 3 was **different** then you need to use another problem solving strategy.

Problem Solving Strategy: Majority Rules

4. Are there more boys or girls at the school?

☒ If there is a **BIG difference** between the number of boys and girls at the school, pick the bake sale item that most purchasers will like.

☒ If there is only a **SMALL difference** between the number of boys and girls at the school then you need to try a different problem solving strategy.



Problem Solving Strategy: Try to Please the Most People

5. Look at the comparison graph. List the two favorite desserts for boys and girls:

Boys	Girls
1.	1.
2.	2.

Is there an item in the list that is liked by both boys and girls? If there is then you have found the item to sell at the bake sale! If not, try the next strategy.



Problem Solving Strategy: Cross Unpopular Items from the List

6. Look at the comparison graph. What dessert do boys like the least?

7. Look at the comparison graph. What dessert do girls like the least?

Cross the least favorite items from the list of possible bake sale items. What items do you have left?

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Pick an item from this list that the majority of purchasers will like.



8. **BAKE SALE ITEM:** What bake sale item are you going to sell? Why did you pick this item?