

Challenge

Analyze a Survey

Leah takes a class survey. She asks her classmates which art tool they will use to draw a picture for art class. Here are the results of her survey.

Favorite Art Tools	
Crayons	###
Markers	### IIII
Paint	### II

Use the tally chart to answer each question.

1. How many children does Leah survey? _____

2. How many children will use crayons? _____

3. Phil asks 40 first graders the same question.

Estimate.

About _____ children choose crayons.

Estimate.

About _____ children choose markers.

4. Gina surveys 100 third graders. She predicts that the fewest number of children will choose paint.

Do you agree? Explain.

5. **Explore It** If you survey your class, do you think you will get the same results as Leah? Survey your class on the same topic. Make a tally chart on a separate sheet of paper to show the results.

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Favorite Art Tools	
Crayons	
Markers	
Paint	

Use the tally chart to answer each question.

1. How many children does Leah survey? 21

2. How many children will use crayons? 5

3. Phil asks 40 first graders the same question. Estimate.

About 10 children choose crayons.

Estimate.

About 20 children choose markers.

4. Gina surveys 100 third graders. She predicts that the fewest number of children will choose paint. Do you agree? Explain.

Answers may vary. Possible answer: No, Leah's class chose crayons, not paint, as their least favorite art tool. A survey of 100 children would most likely have a similar result.

5. **Explore It** If you survey your class, do you think you will get the same results as Leah? Survey your class on the same topic. Make a tally chart on a separate sheet of paper to show the results.

Check children's work.