

Probability

Name _____

The following chart displays statistics based on a class of 26 students. The teacher has asked students to respond to a question. Using the chart, what is the probability that the following students will raise their hands?

Classroom Statistics

Groups	Out of 26 Students
Girls	14
Boys	12
Boys wearing tennis shoes	6
Girls wearing tennis shoes	9
Students wearing glasses	5
Students wearing watches	12

1. a girl _____
2. a boy _____
3. a boy wearing tennis shoes _____
4. a girl wearing tennis shoes _____
5. a student wearing glasses _____
6. a student wearing a watch _____
7. a student not wearing tennis shoes _____

EXTENSION

1. Find the sum of the probabilities in numbers 1 and 2 above. What do you notice? Explain.

2. Which has the greater probability of happening, a student wearing tennis shoes answering the question, or a student not wearing tennis shoes answering the question? Explain.

Probability

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A canister contains 200 jellybeans. There are 75 cherry-flavored, 36 lime-flavored, 44 grape-flavored, and 45 coconut-flavored jellybeans.

What is the probability of choosing a given flavor? Express each answer in lowest terms.

1. grape _____
2. coconut _____
3. cherry _____
4. lime _____
5. grape or lime _____
6. coconut or cherry _____
7. lemon _____
8. grape or cherry _____

EXTENSION

Probability ranges from 0, an impossible occurrence, to 1, an event that is certain to occur. Add together the answers to problems 1 through 4 above. What do you notice? Why is that?

If someone eats all of the cherry-flavored jellybeans, explain what happens to the probability of choosing each of the remaining flavors.
