

8-3**Practice: Skills*****Using Statistics to Predict***

CELL PHONES For Exercises 1–3, use the table at the right. It shows the results of a survey in which students 12 to 17 years old were asked how often they use a cell phone.

Frequency of Use	Percent
more than twice a week	32%
once or twice a week	16%
once or twice a month	23%
less than once a month	12%
never used one	17%

1. Out of 215 students 12 to 17 years old, how many would you predict use a cell phone once or twice a week?
2. Predict how many students 12 to 17 years old in a group of 375 have never used a cell phone.
3. How many students 12 to 17 years old out of 1,200 would you expect use a cell phone at least once or twice a week?

PIZZA For Exercises 4–6, use the table at the right. It shows the results of a survey in which a random sample of seventh graders at Kiewit Middle School were asked to name their favorite pizza topping.

Pizza Topping	Percent
pepperoni	46%
peppers	28%
olives	8%
onions	2%
pineapple	4%
mushrooms	12%

4. There are 32 students in Mrs. Chen's seventh grade class. Predict how many would choose olives as their favorite topping.
5. There are 210 seventh grade students eating lunch in the cafeteria. How many of them would choose peppers as their favorite topping?
6. Predict how many of the 524 seventh graders at Kiewit Middle School would choose pepperoni as their favorite pizza topping.
7. **BACKPACKS** A survey showed that 78% of students who take a bus to school carry a backpack. Predict how many of the 654 students who take a bus also carry a backpack.