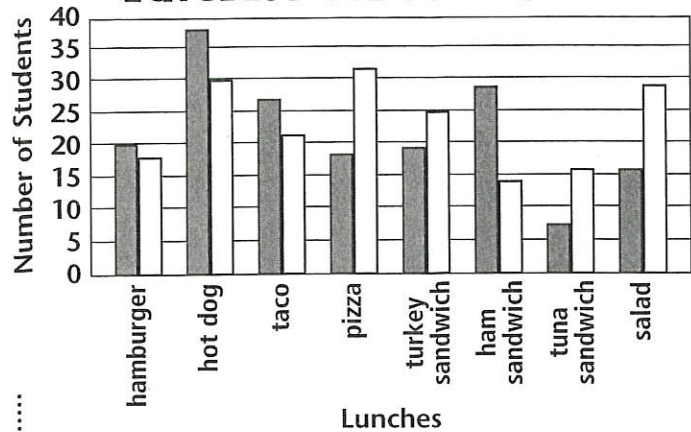


# Time for Lunch

## Interpreting Bar Graphs

Ashlee is a member of her school's eighth-grade student council. As chairperson of the council's Lunch Committee, Ashlee conducted a poll among seventh- and eighth-grade students to find out which lunches students preferred. She graphed her results. Study the graph and answer the questions that follow. Round your answers to the nearest percent.

### Favorite School Lunches



Key:  Seventh-Grade Students  
 Eighth-Grade Students

**Total Number of Students**

Seventh Grade: 172 Eighth Grade: 180

**1** What is the most popular lunch among seventh graders? How many seventh graders prefer this lunch?

What is the most popular lunch among eighth graders? How many eighth graders prefer this lunch?

**2** What is the least popular lunch among seventh graders? How many seventh graders prefer this lunch?

What is the least popular lunch among eighth graders? How many eighth graders prefer this lunch?

**3** How many more seventh graders than eighth graders prefer ham sandwiches?

How many more eighth graders than seventh graders prefer pizza?

**4** What percentage of seventh-grade students prefer hamburgers or hot dogs for lunch? *Hint: (hamburgers + hot dogs) ÷ total # of students = %*

What percentage of eighth graders prefer pizza or hot dogs for lunch?

What percentage of the students in both grades prefer hot dogs for lunch?

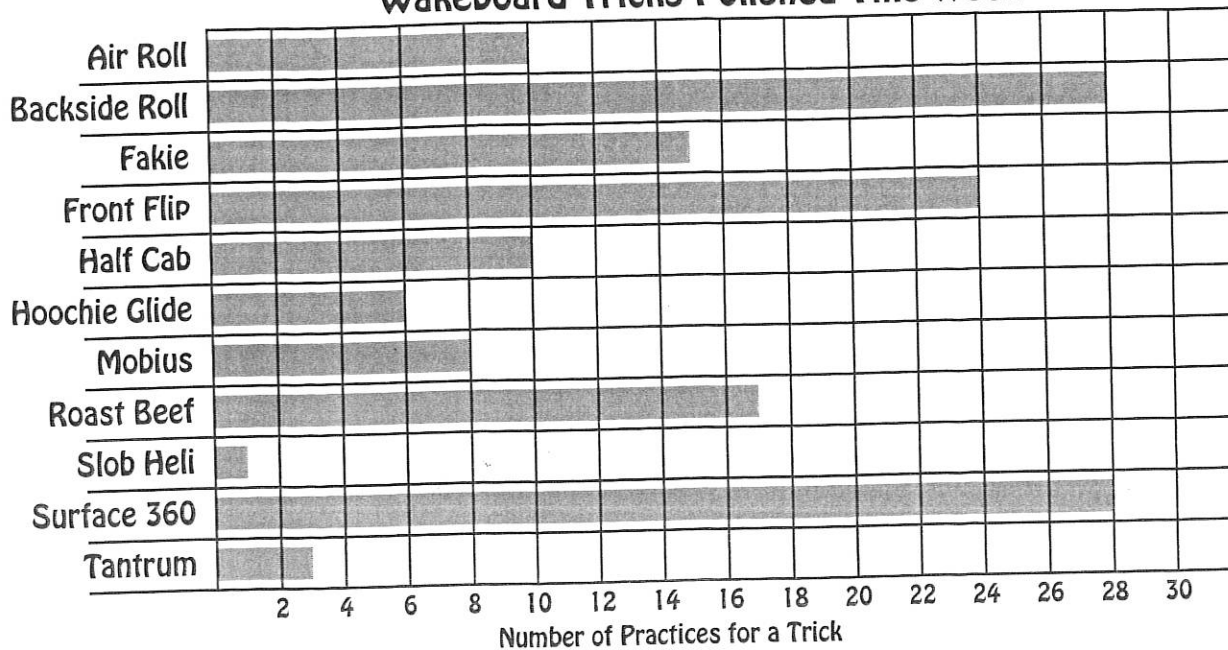
**5** Each year the cafeteria staff changes the menu based on the preferences of the students. The student council Lunch Committee was asked which two lunches should be replaced for next year. Based on the data, if you were Ashlee, which two lunches would you recommend be replaced next year? Explain your answer on the back of this page.

# RIDING THE WAKE

Stay awake when you're riding the wake! An exciting new sport, called wakeboarding, takes advantage of the thrill of riding the crest of water created behind a motor boat. Wakeboarders use the power of the wake to do all kinds of fancy tricks.

Walter is practicing his wakeboarding tricks. He wants to do 30 of each in good form this week. How is he doing so far? Use the information on the graph to answer the questions.

**Wakeboard Tricks Polished This Week**



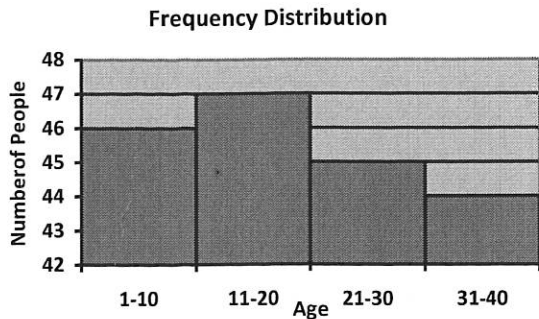
- How many good front flips does Walter have left to do this week to reach his goal? \_\_\_\_\_
- How many more good roast beefs does Walter need? \_\_\_\_\_
- How many more half cabs has he done than hoochie glides? \_\_\_\_\_
- How many more backside rolls has he done than air rolls? \_\_\_\_\_
- How many more good tantrums is he working for this week? \_\_\_\_\_
- How many more front flips has he done than roast beefs? \_\_\_\_\_
- Does Walter seem to be doing well at polishing his surface 360s? \_\_\_\_\_
- How many more times does he need a good practice of a mobius to meet his goal? \_\_\_\_\_
- Which appears to be harder for Walter, the fakie or the half cab? \_\_\_\_\_



- Which trick seems to be giving Walter the most trouble in his work to complete 30 good samples of each? \_\_\_\_\_
- Today is Tuesday (night). If he continues accomplishing his goals at the same rate as he has since Sunday, will Walter have all his 30 good roast beefs by Saturday night? \_\_\_\_\_
- Will he have 30 good half cabs by Saturday night, continuing at this pace? \_\_\_\_\_

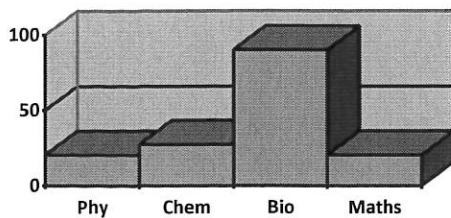
Name \_\_\_\_\_

### Independent Practice 1: Reading Histograms

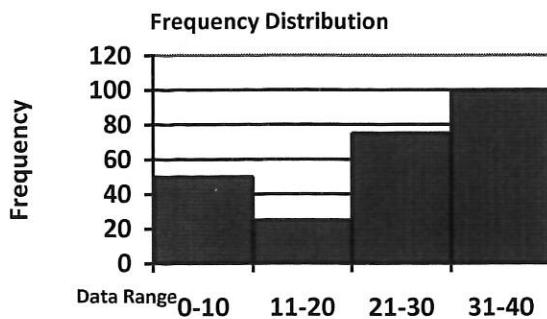


1. which age group has the most people? \_\_\_\_\_
2. which age group has the least number of people? \_\_\_\_\_
3. which age group has less than 45 people? \_\_\_\_\_
4. which age group has more than 46? \_\_\_\_\_
5. what is total number of people in the under 21 age group?  
\_\_\_\_\_

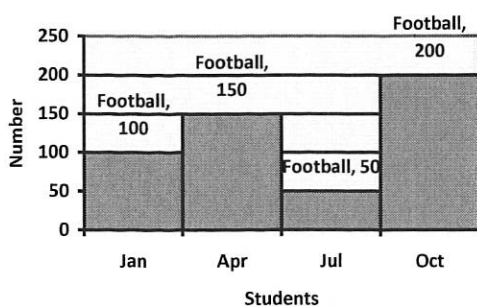
### Enrollment Histogram



6. which subject has the largest enrollment? \_\_\_\_\_
7. what is number of enrollments for Chem.? \_\_\_\_\_
8. which subjects have enrollments more than 60? \_\_\_\_\_
9. what is difference in enrollments between Bio. and Phy. ? \_\_\_\_\_
10. which subject has the least enrollments? \_\_\_\_\_



11. which data range has the maximum frequency? \_\_\_\_\_
12. which data range has the minimum frequency? \_\_\_\_\_
13. what is the frequency for data interval 21-30? \_\_\_\_\_
14. what is frequency for data interval 31-40? \_\_\_\_\_
15. what is total frequency distribution of all data ranges?  
\_\_\_\_\_



16. How many students played football in April? \_\_\_\_\_
17. which month had the largest number of students? \_\_\_\_\_
18. what is the maximum number of students playing football in any month? \_\_\_\_\_
19. what is difference in number of students playing Football between July and October? \_\_\_\_\_
20. which month had more than 150 players in Football? \_\_\_\_\_