

# How Many?

You need  a classmate

## Activity

1 Bronnie and Simon are organising the drinks and the packets of chips for the school disco. They want to estimate how many of each they will need. They have the following information:

- There are 11 classes coming to the disco.
- Each class has about 27 students.
- Usually about 75 percent of the students come.
- There are 24 cans of drink in a carton.
- There are 20 packets of chips in a box.
- 1 person would eat a single packet of chips.
- 1 person would finish 1 can of drink.

They don't want to have lots of drinks and chips left over.

How many cartons of drink and boxes of chips do you think they should buy?

Show all your working and the reasons for making your decisions.







Lucy and Tom are trying to estimate how many parents came to their school talent quest last night.

Well, there were 15 rows with about 18 in each row. Most of the seats were full.



And there was at least 1 person standing at each end of the rows by the walls and a small group by the door who came later.

Estimate how many parents came to the talent quest.  
Explain your working.



To estimate the number of words on a page in a book, you can count the number of words in 3 or 4 lines, estimate the average, and then multiply the average by the number of lines on the page. Try it on a page. Then count to check how close you were.



How could you estimate:

- the number of people at the movies on a Saturday afternoon?
- the number of people in the phone book?
- the number of cars passing the school gates between 8 a.m. and 4 p.m.?
- the amount of time it takes to read a story from the *School Journal*?



- Gather data so that you can estimate one of the amounts in question 4.
- Show your data to a classmate. Ask them to come up with an estimate. How does it compare with your estimate? Discuss any differences.