



## What happens to your empty drink cans?

In **2** days our **4413** secondary school pupils involved in the pilot of *CensusAtSchool* drank **7319** cans of drink.

That is an average of **1.66** cans per pupil.

Using this data, which is for 2 days, can you work out:



1. How many cans would be drunk per pupil  
a) each day ?                      b) each month?                      c) each year ?
2. For a school of 1000 pupils how many empty cans are produced each year?
3. Using the more detailed information in the table below draw a graph of the numbers of cans drunk and come to some conclusions.

No. cans drunk in 2 days	0	1	2	3	4	5	6	7	8	9	10	>10
No. pupils	1739	838	750	419	259	129	77	40	21	10	28	48

If the cans are aluminium then approximately **60** of them make up **1** kilogram. Aluminium recycling firms pay about **40p** for a kilogram.

4. In the pilot of *CensusAtSchool* how much did the empty cans weigh approximately?
5. How much could have been raised if all of the cans were recycled?
6. For a school of 1000 pupils work out how much they could raise in a school year (40 weeks) if they recycled all of the empty cans produced by their pupils. Assume all the cans are aluminium and pupils brought into school all the cans drunk on evenings and weekends.
7. Can you work out similar figures for your school?  
You should be able to work out some better assumptions. Do a survey at break-time or lunchtime to see what happens to the cans. How many are there? Where are the empty cans put?