



## Which way is the best way?

Class R are analysing data from the *CensusAtSchool* question:

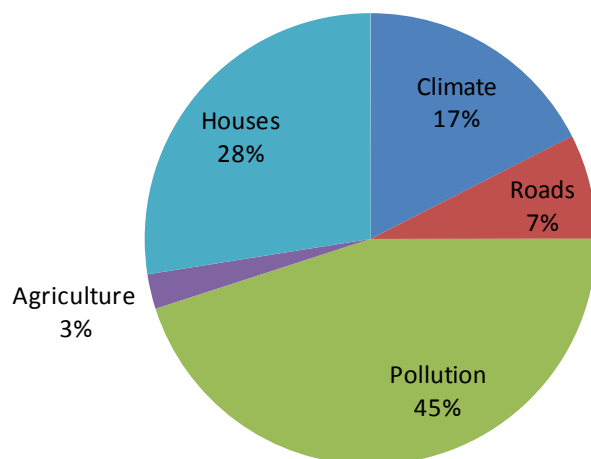
Rank the following threats to trees and woodland in your area:  
(rank from 1 (greatest threat) to 5 (least threat))

- Climate change
- Road building
- Pollution
- Agricultural development
- House building

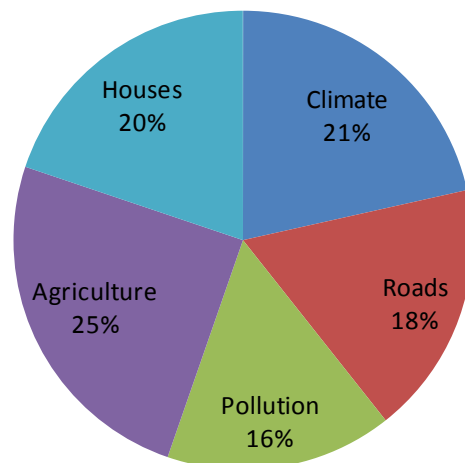
Sami has drawn a pie chart and so has Jodi – but they look very different from each other and seem to give different views. Have a careful look at the pie charts and the data used (on page 2) and see which chart you think is the best way to display the data. Have you come up with some good arguments for your conclusion?

### Thoughts on the threat to trees and woodland in our area.

Sami



Jodi



### TASK A

1. Either using data from your own class or from a random sample of data from the web site draw the best graph of the results for this question.
2. What information does your graph give you?



## Which way is the best way?

Data: Ranking 1 - greatest threat to 5 - least threat from *CensusAtSchool*

Pupil	Climate	Roads	Pollution	Agriculture	Houses
1	4	2	1	3	5
2	5	4	1	3	2
3	5	3	1	4	2
4	4	2	1	5	3
5	2	3	1	4	5
6	5	2	3	4	1
7	4	2	5	3	1
8	3	2	1	5	4
9	1	2	3	5	4
10	1	3	4	2	5
11	4	3	2	5	1
12	3	4	1	5	2
13	2	3	1	5	4
14	5	3	1	2	4
15	5	2	1	4	3
16	3	5	1	4	2
17	2	3	1	4	5
18	5	3	2	4	1
19	3	4	1	2	5
20	1	3	2	4	5
21	4	5	3	2	1
22	3	1	4	2	5
23	3	2	1	5	4
24	1	3	2	4	5
25	1	2	3	5	4
26	1	3	5	4	2
27	4	1	5	3	2
28	1	2	4	3	5
29	5	3	1	4	2
30	3	2	4	5	1
31	3	2	4	5	1
32	5	4	2	1	3
33	3	1	5	2	4
34	5	2	4	3	1
35	4	2	5	3	1
36	5	2	1	4	3
37	2	3	1	4	5
38	4	2	3	5	1
39	3	2	4	5	1
40	2	5	1	3	4



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## TASK B

Just to confuse even more, Ben comes up with the following stacked bar chart.

1. How he has analysed the data?
2. Show your data in this way.
3. Which threat is ranked:
  - (i) highest
  - (ii) lowest

by the pupils in the sample?

