

Multiple Bar Charts

A multiple bar chart (also known as a comparative bar chart) is a statistical diagram that uses *several vertical bars per variable* to represent frequencies for data which can then easily be compared.

A key is then used to determine which bar represents which data set

We usually label our x axis as our variables and our y axis as our frequencies

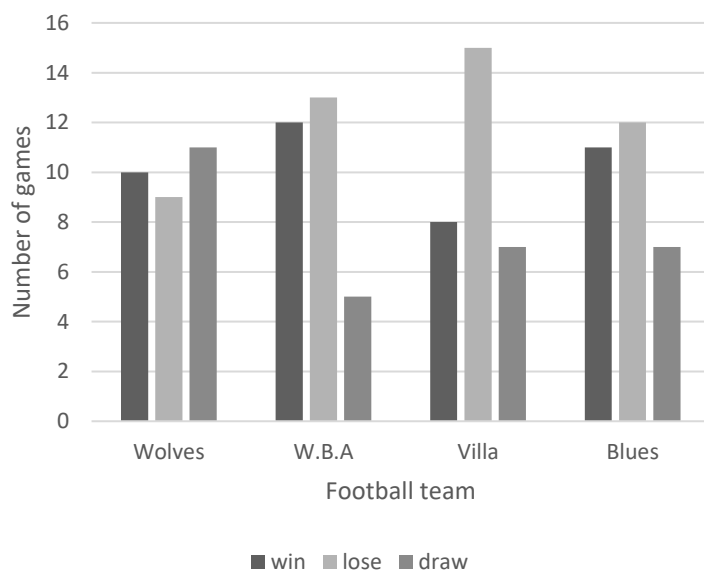
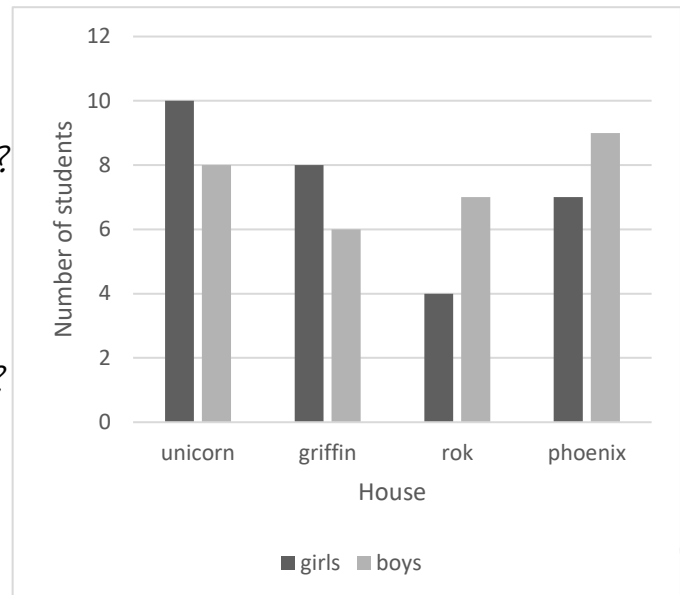
- There must be a key
- All bars must be equal in width
- All variables must have equal gaps between them but bars for the same variable may touch
- The frequencies must start at 0 but may have a scale break

A multiple bar chart can be used for:

- ✓ Qualitative Data
- ✓ Discrete Data

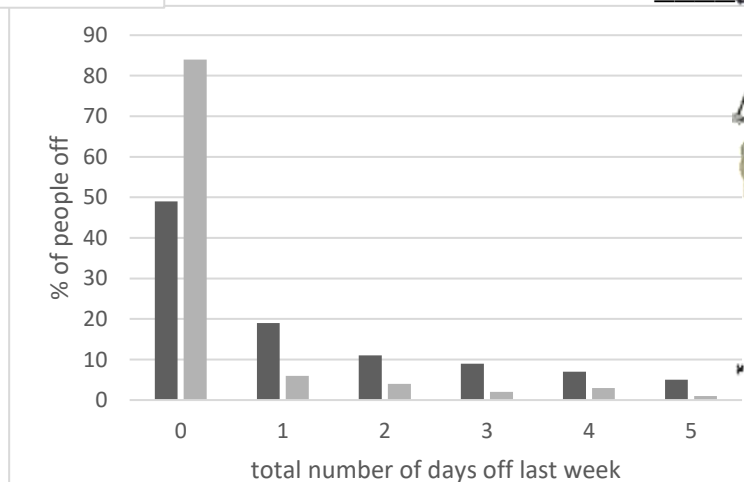
For each of the multiple bar charts below, answer the questions associated with each one

- How many girls are in griffin house? _____
- How many boys are in rok house? _____
- How many students are in phoenix? _____
- Which house has the most girls? _____
- Which house has the fewest students? _____



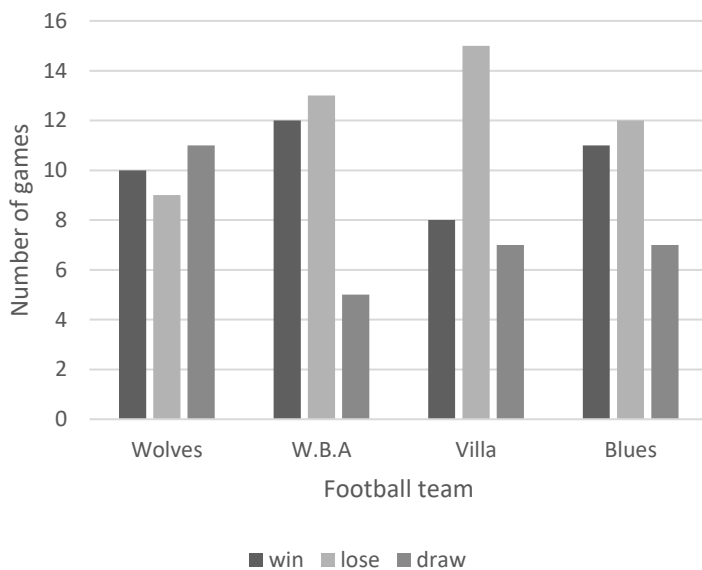
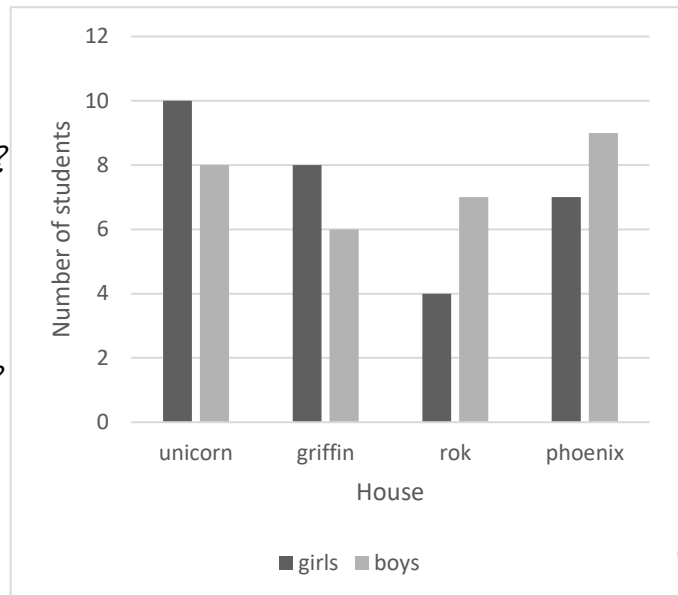
- Which team won the most games? _____
- How many games did Blues lose? _____
- Which 2 teams both drew the same number of games? _____ & _____
- How many more games did Villa lose than W.B.A? _____
- How many fewer games did Wolves win than Blues? _____

- Teachers had a higher percentage of staff off than students for how many days last week? _____
- What was the least number of days both staff and students had off? _____



Solutions

- How many girls are in griffin house? 8
- How many boys are in rok house? 7
- How many students are in phoenix? $7 + 9 = 16$
- Which house has the most girls? unicorn
- Which house has the fewest students? rok



- Which team won the most games? W.B.A
- How many games did Blues lose? 12
- Which 2 teams both drew the same number of games? Villa & Blues
- How many more games did Villa lose than W.B.A? 2
- How many fewer games did Wolves win than Blues? 3

- Teachers had a higher percentage of staff off than students for how many days last week? 0
- What was the least number of days both staff and students had off? 5

