

Name: _____

Frequency Polygons

Exercise 1: An English class had the following grades on a test (out of 100).

26 63 73 82 32 73 35 63 56 87 40 51 55
 43 53 70 43 92 64 75 46 64 23 67 52 28
 76 56 67

- 1) Start with the interval 20.5-30.5. Create a frequency distribution.
- 2) Create a histogram and a frequency polygon
- 3) Which interval has the greatest frequency?
- 4) What percentage of the class received an A (80% or better)?
- 5) What percentage of the class failed (under 50%)?

Exercise 2: The table shows the salaries (£'000) for a sample of 300 employees in a company.

Salary	Number of Employees
20 and less than 30	35
30 and less than 40	75
40 and less than 50	96
50 and less than 60	42
60 and less than 70	52

- 1) Draw a histogram to represent this data.
- 2) Add a frequency polygon to the histogram
- 3) Form a cumulative frequency table and use it to construct a cumulative frequency polygon.