

Task 1 – Frequency Polygon - Football Goal Frequencies

The data below shows the groupings for the time period when every goal was scored in the 2013/2014 Premier League Season by Arsenal or Chelsea. For example Arsenal scored five times between zero and ten minutes across the entire season.

1. Plot a frequency polygon for each team (two different lines) with axes labels and title.
2. What is the modal class for each team?
3. State one difference and one similarity between the two teams.

Time of goal grouping	Mid-Point	Arsenal Frequency	Chelsea Frequency
$0 \leq t < 10$		5	5
$10 \leq t < 20$		5	7
$20 \leq t < 30$		4	4
$30 \leq t < 40$		6	9
$40 \leq t < 50$		9	6
$50 \leq t < 60$		10	8
$60 \leq t < 70$		11	10
$70 \leq t < 80$		9	7
$80 \leq t < 90$		9	15

