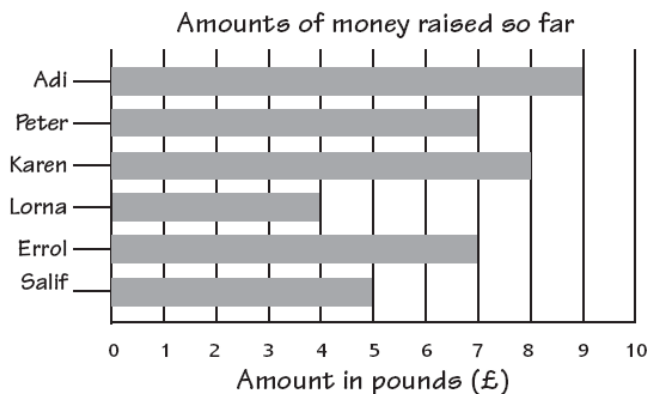
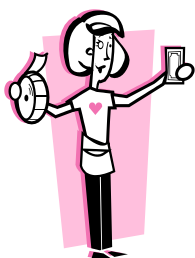


Level 3 Upper Formal Homework

(Show all working!)

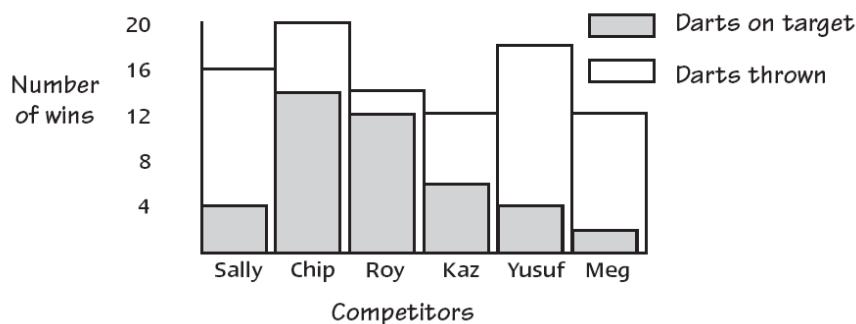
Statistics

1. Six friends have raised some money for their favourite charity:



- Who has raised the most money so far?
- How much has Lorna raised?
- Their total target is £50. How much more do they need to raise?

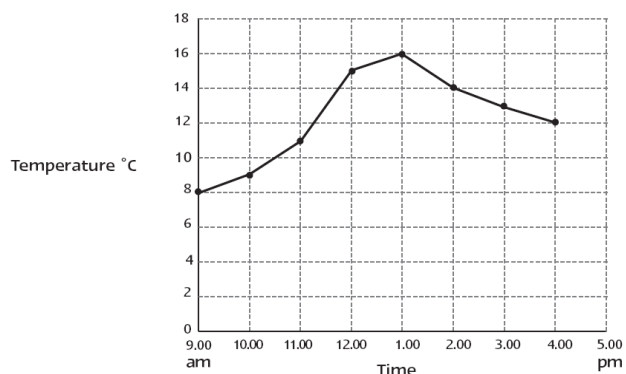
2. A darts competition gave the following results:



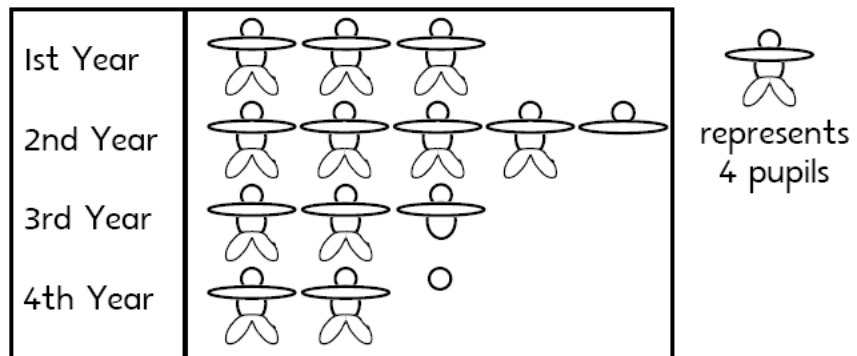
- Kaz had 12 throws, how many were on target?
- Who had the most misses?
- Who hit the target the most?
- Which competitor won the competition? Give a reason for your answer.

3. The temperature in a classroom was recorded over the duration of 1 day:

- At what time was the temperature first taken?
- Use the graph to estimate what the temperature would have been at 11.30am
- What was the range of temperatures for this day?
- What was the mean temperature for this day?

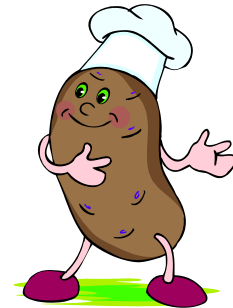
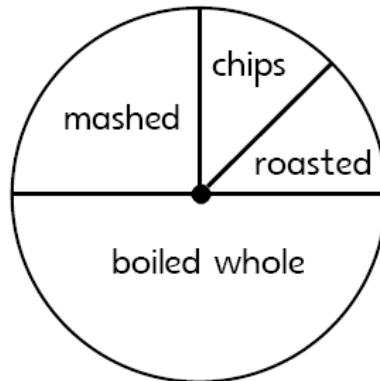


4. The pictograph shows the number of pupils who wear glasses in a school:



- How many pupils wear glasses in S1?
- How many more pupils wear glasses in S3 than in S4?

5. A group of people were asked how they preferred their potatoes to be cooked:



- What percentage preferred their potatoes mashed?
- What percentage of the group preferred theirs' roasted?
- Were the people grown-ups or teenagers? Give a reason for your answer.

Challenge Questions

1. On a digital clock displaying hours, minutes and seconds, how many times in each 24 hour period do all six digits change simultaneously?

- A - 0 B - 1 C - 2 D - 3 E - 24



2. What is the smallest possible difference between two different nine-digit numbers, each of which includes all the digits 1 to 9?

- A - 9 B - 18 C - 27 D - 36 E - 45