

Data Sheet for Unit 3 Specimen problem

- The list includes a variety of data which should assist you to prepare for the specimen Unit 3 modelling with data task
- You may use your own data if you wish
- There is more data provided than is necessary to solve this modelling problem
- You should **select**, and may add to, the data presented so that you have enough data to assist you to attempt the solution.

Costs involved in the problem

There are several costs which may be involved in running a school sports day, such as hire of equipment, advertising costs, refreshments for competitors, trophies and medals for competitors, etc.

There also receipts from the event which could include the sale of tickets to adults and advertising revenue.

The sports day will last all day with field events in the morning and track events in the afternoon.

The organiser wants to keep the overall cost to the school to be less than £750.

Equipment Costs

The following equipment may need to be hired for the day: tiered seating (costing £7 per seat), discuss/shot put netting (at £20 per unit), etc

Advertising Costs

Advertising posters (£0.45 each), leaflets (£0.75 each), etc

Cost of Awards

Medals for each competition winner

Trophies for the winning house, best male/female competitor in each year

Receipts involved in the problem

Ticket sales to adults

Advertising revenue

Sale of refreshments to spectators