

Physics AS at Shaftesbury

Exercises to start you thinking about quantities, numbers and units (there are no exactly 'right' answers)

1. Estimate the number of jelly babies needed to fill Wembley stadium to the brim.
2. Estimate the number of piano tuners in London.
3. Estimate the thickness of one A4 sheet of paper.
4. Estimate the number of salt crystals in a 1 kg carton.
5. If you started at the Big Bang with a spoonful of water and set out to empty it by picking out one molecule of water each second, how far into the task would you now be?
6. How many Mars bars do you need to provide the energy to climb Everest?
7. Estimate the volume of the Earth. If you wanted to take it away in truckloads, how many would you need?
8. In Britain we owe each other about 1.5 trillion pounds (1.5 million million). If this were piled up in £10 notes, how high would the pile be?