MISSION (not) IMPOSSIBLE

Your challenge should you choose to accept it is to answer the below questions by drawing appropriate Venn diagrams …

Good Luck …

A group of 80 people were asked if they liked different fruit.

- 38 said they liked apples,
- 42 like bananas, and
- 14 like cherries.
- 6 liked all 3 fruits.
- 20 people like apples and bananas,
- 10 of the people who liked cherries also liked bananas.
- 6 people like cherries and apples.

How many people liked at least two fruits?

A group of 40 people were asked what they ate for lunch.

- $\frac{3}{4}$ of the group had a sandwich,
- $\frac{1}{2}$ the group had some fruit,
- 12 people had yoghurt.
- 10 of the people who had yoghurt also had fruit,
- $\frac{1}{4}$ of the group had all 3 items,
- $\frac{2}{3}$ of the sandwich eaters also had fruit.
- 11 of the sandwich eaters also had yoghurt.

How many people had a sandwich plus one other item?