

Mathematical Problem Solving

GCSE example

Example 22

Sam and Max are organising a 60th birthday party for their grandfather.

They wish to invite as many friends and family as possible.

They have £2500 to spend.

One caterer says that the cost is £24 for each person but for over 100 people they offer a 15% discount for each person. The other caterer provides this table:

Number of people	Cost per person
Over 100	£21
75 - 99	£23
50 - 74	£25
Up to 49	£27

Work out the maximum number of people they can pay for.

Show working to compare the maximum number of people for **both** options.
