

MISSION (not) IMPOSSIBLE

Your challenge should you choose to accept it, is to answer the following question:

All participants in a marathon run were asked to submit an estimate of how much money they expected to raise for charity. They were asked to select from three expected donation ranges.

Number of participants	Expected donations £
78	$1 \leq x < 50$
109	$50 \leq x < 100$
64	$100 \leq x < 150$

Use the median value for each category to calculate the total amount expected to be raised.

Once you have worked out the above, the easy bit is to calculate an estimate for the mean amount of money that each entrant expects to raise.