Schools activity

Imagine you work for the UK Department for Education (DfE).

Your task is to find out whether a new educational intervention is effective. The new intervention has been rolled out in 1000 randomly-selected schools in the UK.

- You have a budget of around £10,000.
- The cost to visit a single school is £100
- The cost to measure each pupil is £10
- The average size of a school in the UK is roughly 250.

Would you prefer to collect data from:

- 970 children across 3 schools
- 870 children across 13 schools
- 770 children across 23 schools
- 670 children across 33 schools
- 570 children across 43 schools
- 470 children across 53 schools
- 370 children across 63 schools
- 270 children across 73 schools
- 170 children across 83 schools

These options all cost around £10,000.

Discuss the problem as a small group. Identify the different tradeoffs involved.