The aim of this assessment is to provide the opportunity for you to:

- develop a chain of reasoning that will enable you to estimate quantities to an appropriate degree of accuracy
- choose suitable units for your estimate
- communicate the assumptions upon which your estimate is based.

1. High stack

Suppose you have a very large sheet of paper. You tear it in half and put one half on top of the other. You now have a stack of two sheets.

You now tear the whole stack in half and place one half on top of the other to make a new stack. You repeat this process, tearing 50 times. (Yes I know its impossible - just imagine you could).

How high would the stack be? 50 feet? 100 feet? A mile? or more...?

Make a sensible estimate, based on careful reasoning.

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2. The swimming pool and the glass.

How long would it take you to empty an olympic size swimming pool with a glass?

Assumptions

Reasoning

3. The briefcase of cents

Suppose you filled a briefcase with one cent coins.

How much would the money be worth?
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