Baby boom

Teacher guidance

**Overview of task**

This is an introduction to working with the Normal distribution – it starts with a problem likely to interest students.

**Strand**

Statistics

**Prior knowledge**

Students need to be familiar with the statistics: mean, variance and standard deviation.

**Relevance to Core Maths qualifications**

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| **AQA** | **C&G** | **Eduqas** | **Pearson/ Edexcel** | **OCR** |
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**Suggested approaches**

This is a whole class task with opportunity for group discussion, as it starts with a problem. There is individual practice for determining probabilities/areas under a Normal distribution. As well as using tables for determining areas under a Normal distribution, you may wish to use calculators with built-in values.

**Resources/documentation**

There is a PowerPoint presentation and interactive whiteboard resources.

**Relevant digital technologies**

You could introduce the use of calculators with appropriate statistical functionality to determine areas under the Normal distribution.

**Possible extensions**

The ‘chicken and egg’ problem follows.

**Acknowledgement**

Developed by Derek Robinson for the CMSP.