## **Edexcel A level Maths Statistical distributions**



## Section 1: The Normal distribution

## **Crucial points**

- 1. **Use symmetry where you can**Initially make sure you are very confident in being able to manipulate standardised test scores by using symmetry.
- Make good use of diagrams to illustrate your answers
   Draw a sketch showing the distribution and shading the area you are considering.
- 3. **Define your variables**Carefully define your non-standardised variable with *X* or *Y* or..... (but of course not *Z*).
- 4. **Be careful to distinguish between values of** *Z* **and values of** *X* Confusion with notation makes it harder for you to be awarded method marks. Show clearly how you are standardising values.
- 5. Write down clear probability statements
  Again you are more likely to receive method marks if your statements are easy to read.
- 6. Know how to use your calculator to find Normal probabilities

  Make sure you know how to use both the Normal and inverse Normal
  functions.
- 7. Remember that the Normal distribution is a continuous distribution

Probabilities such as P(X = 45) will be zero if X is a Normal distribution, as this would mean finding the area of a line.

