**3A The Normal Distribution**

Key Values:

1. The diameters of a rivet produced by a particular machine, $X$ mm, is modelled as $X\~N(8,0.2^{2})$. Find:
2. $P\left(X>8\right)$
3. $P\left(7.6<X<8.4\right)$
4. $P(X>7.8)$