- **31.** The heights of a large group of female students are normally distributed with a mean of 165cm and a standard deviation of 3.5 cm. A student is selected at random from this group.
 - (i) Find the probability that she is less than 160 cm in height.

The Drama teacher is looking for a student with a height between 168 cm and 174 cm for a part in a school play.

(ii) Find the proportion of students from this group that would satisfy these conditions.

