

Shown is a cube.
Calculate angle BDF

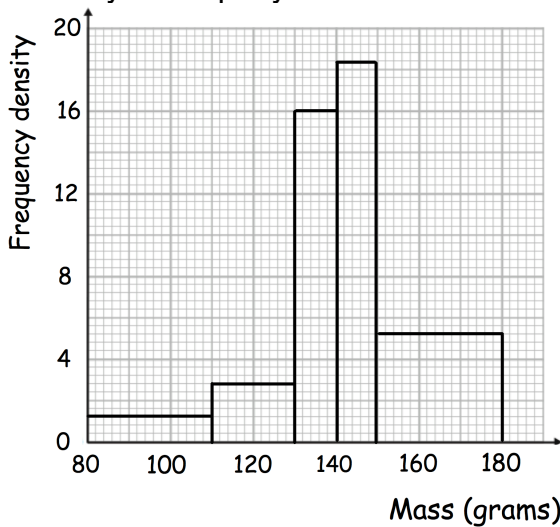
In a class of 30 students
15 students play the piano
19 students play the guitar
8 students play neither instrument.

Represent this information on a Venn diagram



A student is selected at random.
Given the student plays the piano, work out the probability that they do not play the guitar.

The histogram shows the mass of scones made by a company.



36 scones had a mass between 80g and 110g

Calculate an estimate of the median mass of a scone.

12.5% of the scones had a mass greater than y grams.

Calculate an estimate of y.