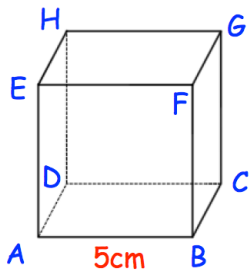


7th October



Corbettmaths



Calculate angle BDF

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

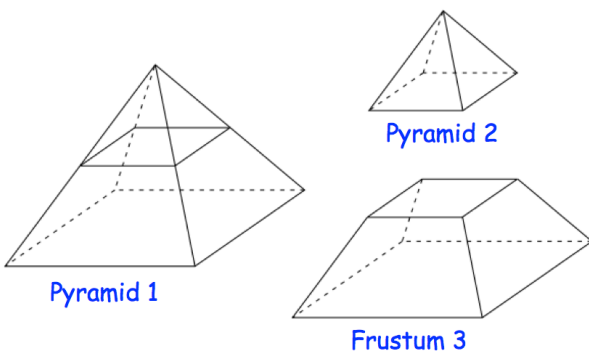
Represent this information on a Venn diagram

ξ



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

A square based pyramid 1 is divided into two parts: a square based pyramid 2 and a frustum 3, as shown.



Pyramid 1 has a base of side length 12cm.
 Pyramid 2 has a base of side length 4cm.
 The perpendicular height of pyramid 1 is 15cm.

Calculate the volume of frustum 3.