

30th April



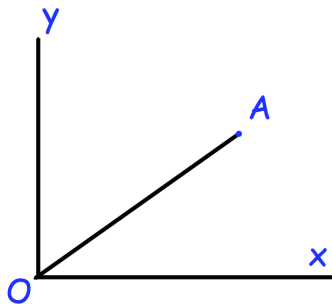
Corbettmaths

	French	German
Female	13	15
Male	5	17

Three students are selected at random. Find the probability that all three are female.

Two positive integers have a difference of 4.
Prove the difference between the squares of the integers is four times the sum of the integers.

Write $1.245454545\dots$ as a fraction



Shown is a straight line joining O and A.
The length of the line is $\sqrt{1805}$
The gradient of the line is $\frac{1}{2}$
Find the coordinates of A.

The ratio of A to B is 1:400
where 400 is given to the nearest 100.

B is 5×10^{15} correct to one significant figure

Calculate the minimum value of A
Give your answer in standard form.