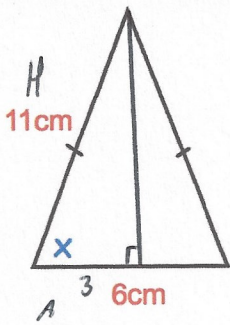


17th August



Corbettmaths

Find the size of  $x$ .

$$\cos x = \frac{3}{11}$$

$$x = 74.17^\circ$$

At a university, the ratio of women to men is 4:3.

e.g. 400 : 300

70% of the women are under the age of 30.

280 under 30 (women)

35% of the men are over the age of 30.

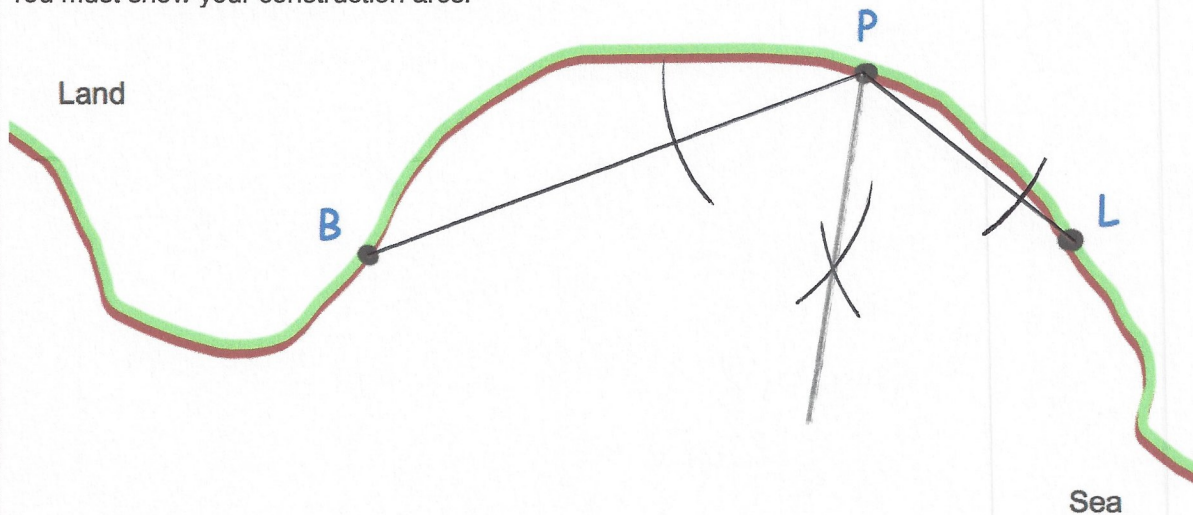
What percentage of all the people at the university are over 30?

M	W	
300	400	
195	280	under 30
105	120	over 30

$$105 + 120 = 225$$

$$225 \div 700 \times 100 = 32.14\%$$

A yacht leaves the port, P, on a course that is an equal distance from PB and PL. Using ruler and compasses only, construct the course on the diagram. You must show your construction arcs.

Expand  $\sqrt{2}(\sqrt{18} - \sqrt{2})$ 

$$\sqrt{36} - \sqrt{4}$$

$$6 - 2 = 4$$