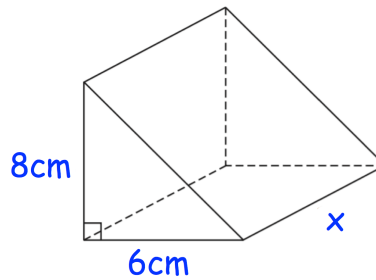




The volume of the prism is  $320\text{cm}^3$

Find the length of the prism,  $x$ .



The population of birds on an island in 2016 was 22% lower than it was in 1996.

In 2016 the population of birds was 76440.

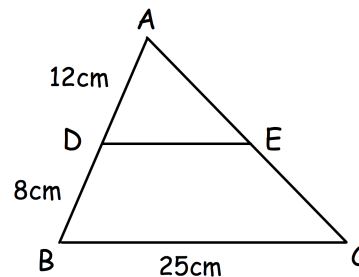
How many birds lived on the island in 1996?

A container exerts a force of 1200 Newtons on the floor.  
The pressure on the floor is 40 Newtons/ $\text{m}^2$

Calculate the area of the container that is in contact with the floor.

Triangles ABC and ADE are similar.

Find the length of DE.



To make material C, material A and material B are mixed in the ratio 3:7.

Material A costs £7 per kilogram.  
Material B costs £1.40 per kilogram.

Work out the cost of 50kg of material C.