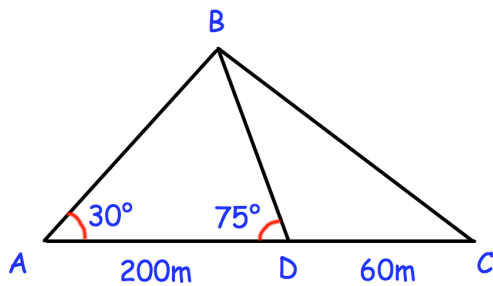




A gym runs many exercise classes.  
 Monday: 5 different classes  
 Tuesday: 6 different classes  
 Wednesday: 8 different classes  
 Thursday: 8 different classes  
 Friday: 10 different classes.

Shea goes to one exercise class on 4 different days.  
 How many different possible combinations are there?



Find the length of BD

Find the length BC

Find the size of angle DBC

Liquid A has a density of  $0.9\text{g/cm}^3$   
 Liquid B has a density of  $1.4\text{g/cm}^3$   
 Liquid C has a density of  $0.75\text{g/cm}^3$

200g of liquid A, 1kg of liquid B and 500g of liquid C are mixed to make liquid D.

Work out the density of liquid D