

**UNIT1 - PROPORTIONS AND SIMILAR TRIANGLES**

**ASSIGNMENT**

Complete each question below and submit prior to next class

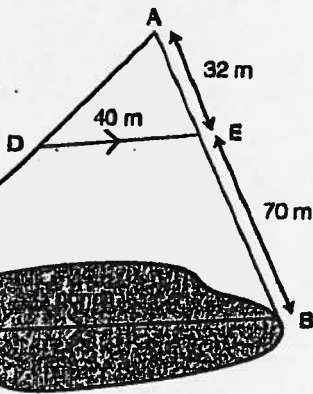
1. Solve each proportion.

a)  $\frac{x}{15} = \frac{21}{45}$

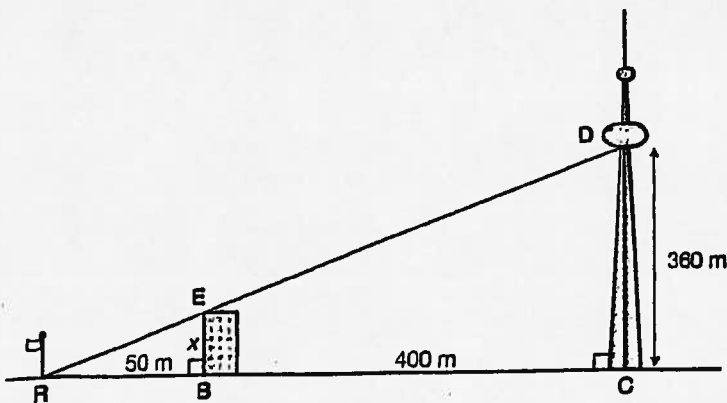
b)  $\frac{22}{y} = \frac{2}{3}$

c)  $\frac{18}{23} = \frac{z}{46}$

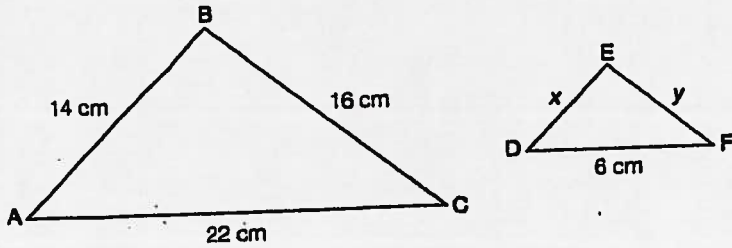
2) Use the diagram below to find the width of the pond.



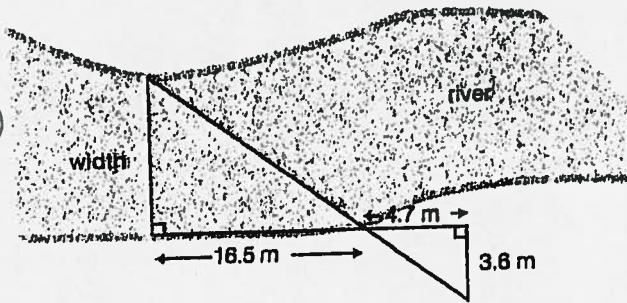
3) Use the diagram below, to determine the height of the building(x).



4) Triangle ABC is similar to triangle DEF. Find the length of the two missing sides (x) and (y).



5) Use the diagram below to find the width of the river.



6) The CN Tower casts a shadow 845.8 m long. A 1.83m tall person standing near the tower casts a shadow 3.05m long. How tall is the CN Tower ?