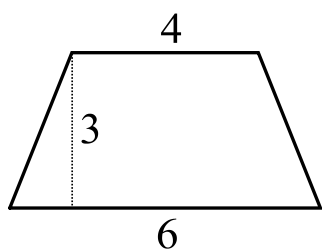
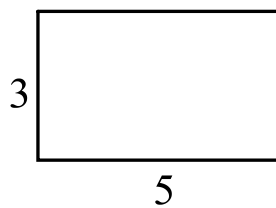


Equivalent Figures

Two **plane figures** that have the **same area**, are said to be **equivalent**.

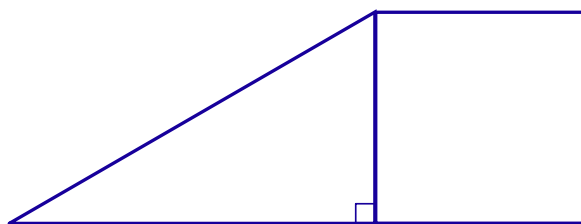


$$\text{Area} = 15 u^2$$



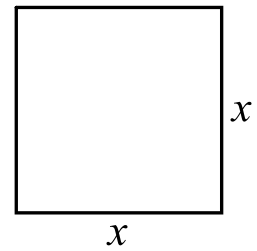
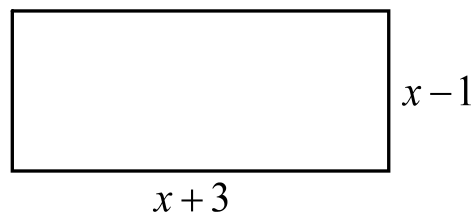
$$\text{Area} = 15 u^2$$

Example: The square and the triangle are equivalent.
What is the area of each figure if the perimeter of the square is 30cm ?



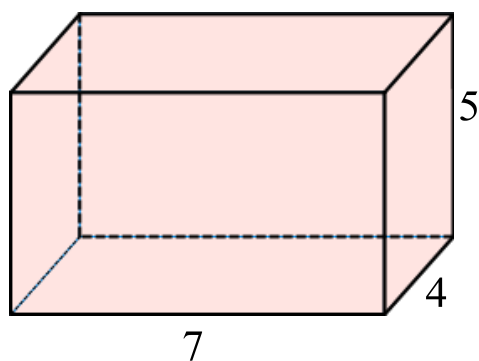
What is the length of the base of the triangle?

Example: Determine the value of x , if the two figures are equivalent.

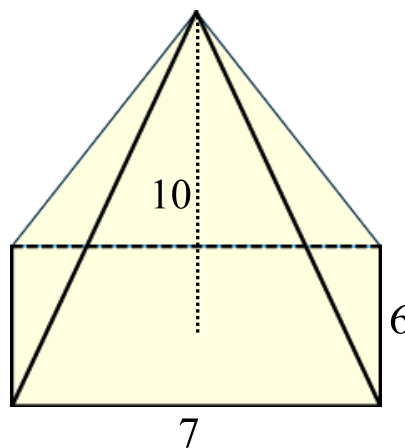


Equivalent Solids

Two **solids** that have the **same volume** or **capacity**, are said to be **equivalent**.

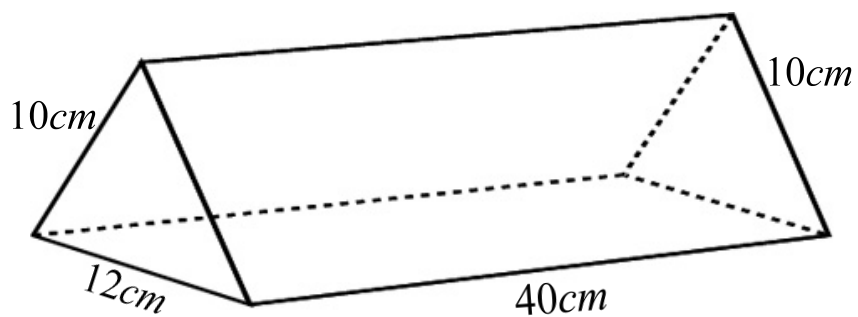
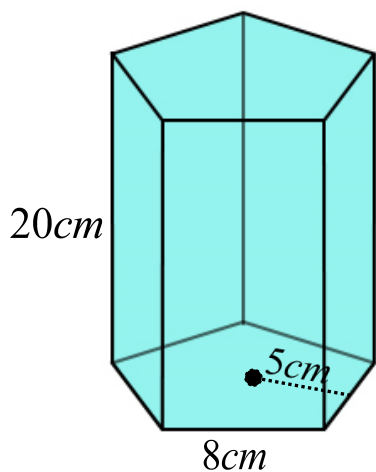


$$\text{Volume} = 140u^3$$



$$\text{Volume} = 140u^3$$

Example: Are the following solids equivalent?



Example: The sphere and the cylinder below are equivalent. Determine the radius of the sphere.

