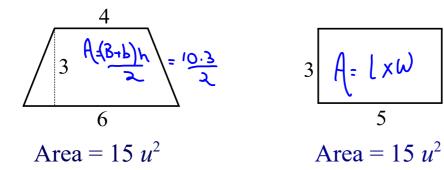
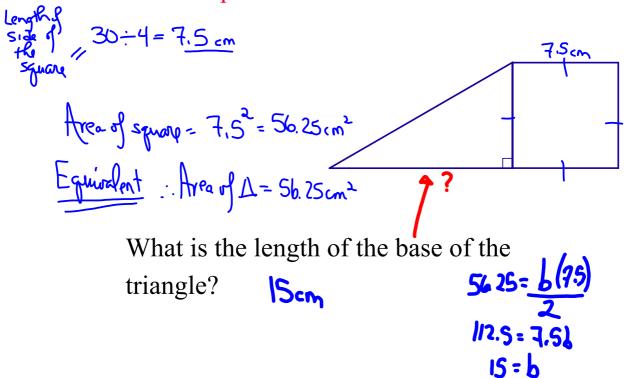
Equivalent Figures

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



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



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

Equation
$$(x+3)(x-1)$$
 $x-1$

$$x+3$$

$$(x+3)(x-1) = x^{2}$$

$$x = 2$$

$$x+3$$

$$x+2$$

$$x+3$$

$$x+2$$

$$x+3$$

$$x+2$$

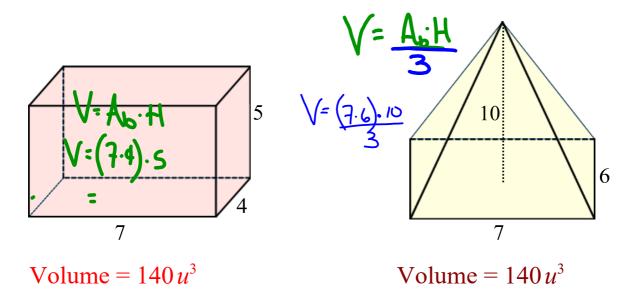
$$x+3$$

$$x+2$$

$$x+3$$

Equivalent Solids

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



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

