



Simplify

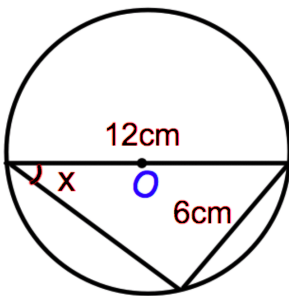
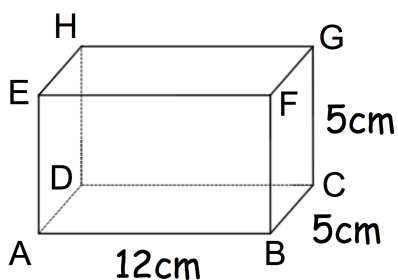
$$(2xy^3)^3$$

Solve, giving your answers to one decimal place.

$$3x^2 = 10 - 2x$$

Leonie bought a hat and a coat.  
The hat cost £6  
She sold both items for a total of £45  
Leonie made 300% profit on the hat  
and 125% profit on the total cost.

Work out her percentage profit on the cost of the coat.

Find  $x$ 

Shown is a cuboid.  
Calculate the length AG