



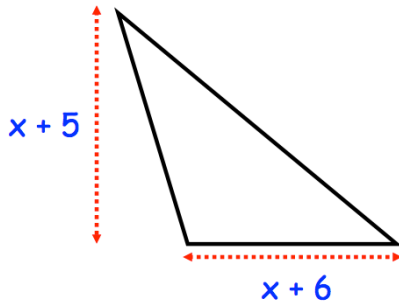
Bethan owns 10 shops and 5 restaurants.  
She is going to visit three of her  
businesses and writes her list in order.  
The order will be:

shop, restaurant, shop

or

restaurant, shop, restaurant

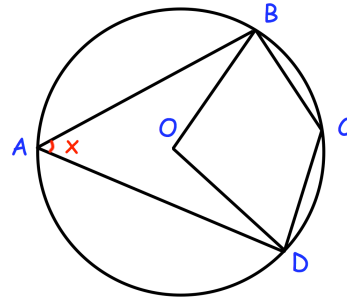
How many different lists can Bethan  
write?



Shown is a triangle with area  $19\text{cm}^2$ .  
Find the value of  $x$

$$\angle BAD = x$$

Express  $\angle BCD$  in terms of  $x$



Express the reflex angle  $BOD$  in  
terms of  $x$

Work out  $2\sqrt{75} + 5\sqrt{27}$