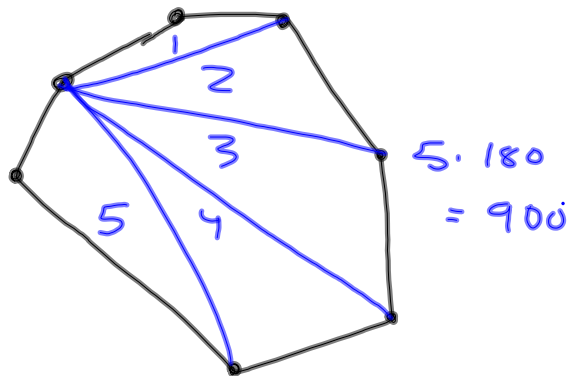


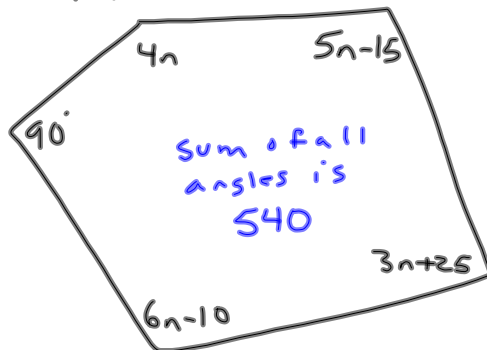
12-6-13  
5<sup>th</sup> Geo

What is the sum of  
the angles in



Sum of all  
angles =  $(n-2) \cdot 180$

Find  $n$ .



$$4n + 5n - 15 + 3n + 25 + 6n - 10 + 90 = 540$$

$$\vdots$$
$$n = 25$$

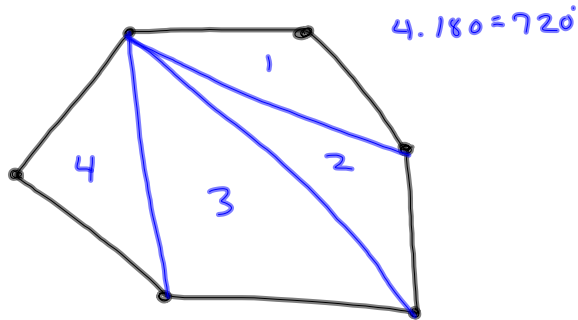
How many degrees is each  
angle in a regular decagon?

decagon has 10 sides.  
 $\therefore$  sum of all angles inside  
it is  $(n-2) \cdot 180 = (10-2) \cdot 180 =$   
1440.

Each of the 10 angles  
is  $\frac{1440}{10} = 144$ .

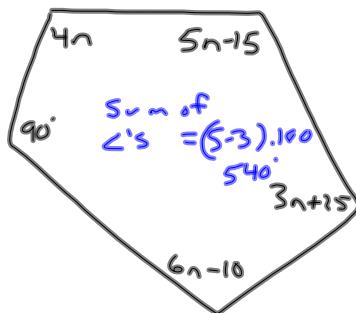
12-6-13  
6<sup>th</sup> Geo

What is the sum of the angles in the shape below?



Formula: sum of all angles =  $(n-2) \cdot 180$

Find  $n$  in the shape below.



$$4n + 5n - 15 + 3n + 15 + 6n - 10 + 90 = 540$$
$$n = 25$$

How many degrees is each angle in a regular octagon?

$$\begin{aligned} \text{Sum of all angles} &= (n-2) \cdot 180 \\ &= (8-2) \cdot 180 \\ &= 1080 \\ \text{Each } \angle &= \frac{1080}{8} \\ &= 135 \end{aligned}$$