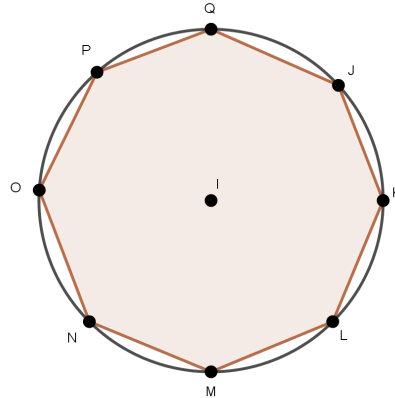


## Resolução Raio X - MAT9\_11GEO01

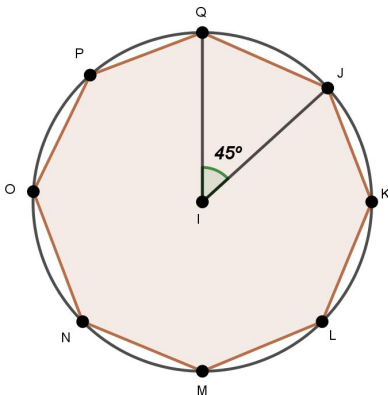
A figura abaixo é um octógono/ octágono regular, inscrito em uma circunferência de centro I.



Analise a imagem e determine a medida dos ângulos dados:

**JIQ: 45°**

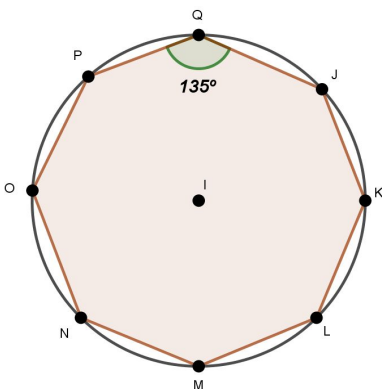
$$JIQ = \frac{360}{8} \rightarrow JIQ = 45^\circ$$



**PQJ: 135°**

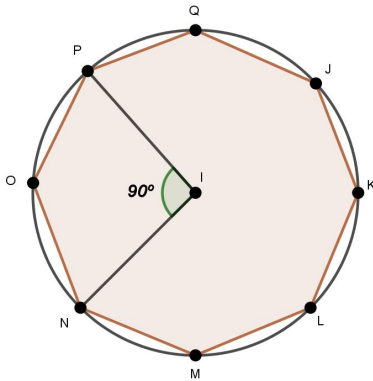
$$S = 180(n - 2) \rightarrow S = 180 \times 6 \rightarrow S = 1080$$

$$PQJ = \frac{S}{8} \rightarrow PQJ = \frac{1080}{8} \rightarrow PQJ = 135^\circ$$



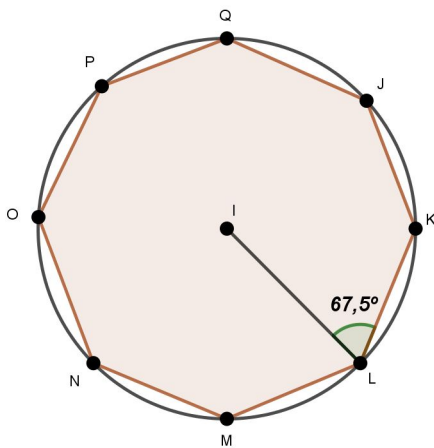
**PIN:  $90^\circ$**

$$PIN = 45 \times 2 \rightarrow PIN = 90^\circ$$



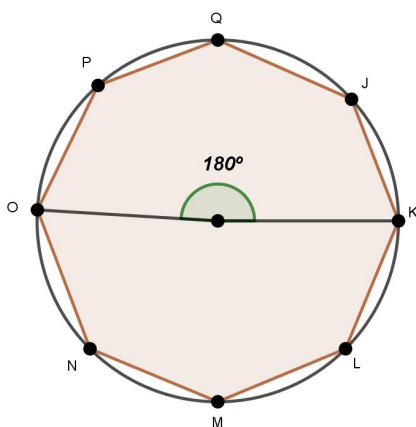
**ILK:  $67,5^\circ$**

$$ILK = \frac{135^\circ}{2} \rightarrow ILK = 67,5^\circ$$



**OIK:  $180^\circ$**

$$OIK = 45 \times 4 \rightarrow OIK = 180^\circ$$

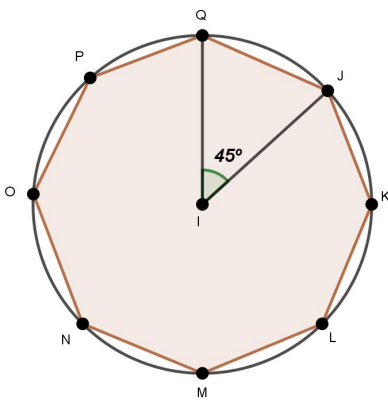


**PON:  $135^\circ$**

$$S = 180(n - 2) \rightarrow S = 180 \times 6 \rightarrow S = 1080$$

$$PON = \frac{S}{8} \rightarrow PON = \frac{1080}{8} \rightarrow PON = 135^\circ$$

a) Qual destes é o ângulo central? QII



b) Quanto mede o ângulo inscrito nessa circunferência?  $135^\circ$

