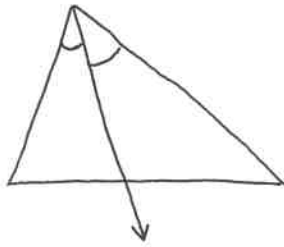


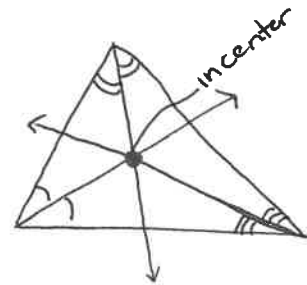
Angle Bisector of a Triangle:



a ray or segment that splits an angle in 2 congruent pieces

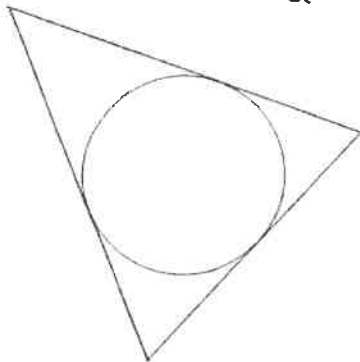
Incenter:

the point of concurrency of the angle bisectors



Inscribe:

the circle that is inside a triangle touching each side exactly once



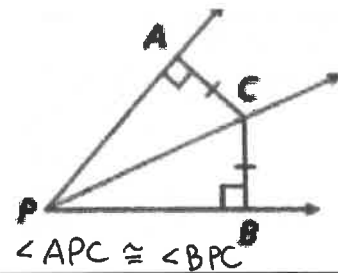
* incenter is the center of the inscribed circle

<p>Angle Bisector Theorem</p>	<p>If a point is on the bisector of an angle, then it is equidistant from the sides of the angle.</p>	
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Geometry CC
Angle Bisectors

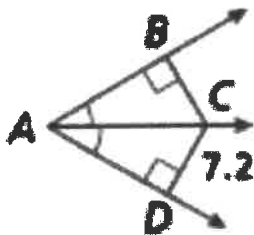
Converse of the Angle Bisector Theorem

If a point in the interior of an angle is equidistant from the sides of the angle, then it is on the bisector of the angle.



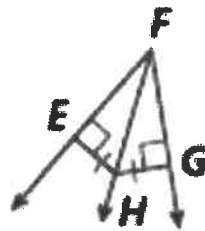
2. Find each measure:

a. $BC = 7.2$

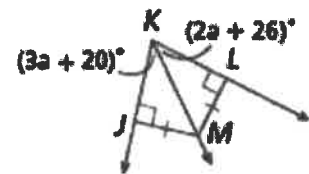


b. If $m\angle EFG = 50^\circ$

then $m\angle EFH = 25^\circ$



c. $m\angle MKL =$



$$\begin{array}{r} 2a + 26 = 3a + 20 \\ -2a \quad -2a \end{array}$$

$$26 = a + 20$$

$$\begin{array}{r} -20 \quad -20 \end{array}$$

$$6 = a$$

$$m\angle MKL = 2a + 26$$

$$= 2(6) + 26$$

$$= 12 + 26$$

$$= 38^\circ$$