$\qquad$
The Incenter of a Triangle $\qquad$ Period $\qquad$

When three or more lines intersect at one point, the lines are said to be concurrent.


## Incenter of a Triangle

The point of concurrency of the angle bisectors of a triangle.


## Incenter of a Triangle

The incenter is the center of the circle that can be inscribed inside the triangle.


Point $P$ is the incenter of $\Delta \mathrm{X} Y \mathrm{Z}$

## Incenter Theorem

The incenter of a triangle is equidistant from all sides of the triangle.

© iTutoring.com

## Incenter of a Triangle

The incenter of a triangle is always inside the triangle.


## Incenter of a Triangle

The point of concurrency of the angle bisectors of a triangle.
Point $P$ is the incenter of $\Delta \mathrm{X} Y Z$
Point $P$ is the center of the


The incenter of a triangle is equidistant from all sides of the triangle.

