

	<u> </u>					
			Name			
Angle Bisectors in a Triangle						
ID: 8892			Class			
	tivity, you will explor					
	he angle bisector of	•				
ar	he proportional relat n angle bisector in a oposite side into two	triangle divides th				
Use this o	document to record	your answers.				
Problem	1 – The Angle Bise	ector Theorem				
	at were the measures of the two angles created by your angle ector ($\angle BAX$ and $\angle CAX$)?					
2. Reco	rd some of the meas	surements after mo	oving point X:			
	Distance from	X to side \overline{AB}	Distance from	Distance from X to side \overline{AC}		
2 Comp	Note the conjecture:					
•	olete the conjecture:	a biography of on on	ala ia	from the original		
	ny point on the angle e angle.	e disector of an an	gie is	from the sid		
Problem	2 – One Angle Bis	ector in a Triangl	e			
4. Reco	rd some of the meas	surements after mo	oving a vertex of \triangle	ABC:		
	AB	AC	BD	CD		

AB	AC	BD	CD



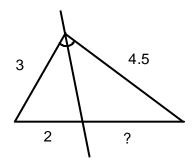
5. Identify a pair of ratios that are equal. Drag a vertex of the triangle to confirm your conjecture.

____ = ____

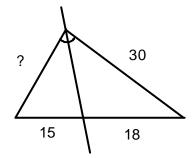
Apply The Math

Use your proportion from question 5 above to find the missing values for each:

6.



7.



8. Create your own problem and solve it below.

