$\qquad$ Date: $\qquad$ Period: $\qquad$

## Triangle Similarity Relationships

| The Angle Bisector/Proportional Side Theorem states: "A into of an segments whose lengths are in the same in a triangledivides the as thelengths of the sides to the ." |  |  |  |
| :---: | :---: | :---: | :---: |
|  | Measure the following sides to complete the proportion below: $\begin{aligned} & \frac{A B}{A C}=\frac{B D}{C D} \\ & - \end{aligned}$ | What do you notice about the two ratios? | Can you find the missing length? <br> $\overline{H J}$ bisects $\angle H$. Calculate $H F$. |




