Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Section 2.6, Day 1: Proof Blocks to Flow Chart Proofs**

When writing a proof, it is important to justify each logical step with a reason. You can use symbols and abbreviations, but they must be clear enough so that anyone who reads your proof will understand them.

Today, we will use more Proof Blocks to prove statements using given pieces of information. In each envelope, you will find the Blocks for #1-4 in different colors. Use them to fill in the chart below.

Below is an example of what a flow chart should look like:

 Given Statement Statement Statement

 Reason Reason Reason

#1: PINK:

 **Given**: $∠1$ and $∠2$ are straight angles

 **Prove**: $∠1≅∠2$

#2: GREEN

 **Given**: B is the midpoint of $\overbar{AC}$

 $\overbar{AB}≅\overbar{EF}$

 **Prove:** $\overbar{BC}≅\overbar{EF}$

#3: BLUE

 **Given**: $\vec{HJ}$ is a bisector of $∠IHK$

 $∠1≅∠3$

 **Prove**: $∠2≅∠3$

#4: YELLOW

 **Given**: $∠A$ and $∠B$ are supplementary

 $m∠A=45°$

 **Prove**: $m∠B=135°$

#5:

 **Given**: $∠1$ and $∠2$ are complementary

 $m∠1=4m∠2$

 **Prove**: $m∠2=18°$