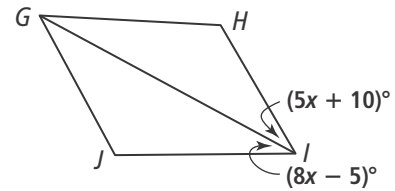




6-6 Mathematical Literacy and Vocabulary

Conditions of Special Parallelograms

A student wants to find the value for x , where $\square GHIJ$ is a rhombus. She wrote the steps to solve the problem on note cards, but they got mixed up.



Think: If $\square GHIJ$ is a rhombus, the diagonal bisects $\angle JIH$.

Subtract $5x$ from each side:
 $15 = 3x$

Divide each side by 3:
 $5 = x$

Substitute for $m\angle GIH$ and $m\angle JIG$:
 $5x + 10 = 8x - 5$

Add 5 to each side:
 $5x + 15 = 8x$

Check:
 $5(5) + 10 = 8(5) - 5$
 $25 + 10 = 40 - 5$
 $35 = 35$

Note that $m\angle GIH = m\angle JIG$.

Use the note cards to write the steps in order.

1. First, _____
2. Second, _____
3. Third, _____
4. Fourth, _____
5. Next, _____
6. Then, _____
7. Finally, _____