Reasoning and Sense-Making Question Stems

TI Professional Development

- Compare and contrast: How are they alike? How different?
- Predict forward: "What would happen if … ?"
- Predict backward: "How can I make ... happen?" "Is it possible to ...?"
- Analyze a connection/relationship: "When will ... be (larger, equal to, exactly twice, …) compared to ...?" "When will ... be as big as possible?"
- Generalize/make conjectures: "When does ... work?" "Under what conditions does … behave this way?" "Describe how to find ...?" "Is this always true?"
- Justify/prove mathematically: "Why does ... work?"
- Consider assumptions inherent in the problem and what would happen if they were changed
- Interpret information, make/ justify conclusions: "The data support … ; "This … will make … happen because …"