



### GOALS AND OUTLINE FOR THE SESSION

#### Part 1:

- Do a task while thinking about our thought processes.
- Discuss the task in a way that helps connect our thought processes to the SMP and helps us become more aware of the meanings of the SMP.

#### Part 2:

 Examine student work on the task to consider how we could support increased understanding and use of the SMP.

What specific questions do you have about the SMP or the use of SMP in teaching?

## A COMPARISON NUMBER GAME

Two kids are playing a game. They each choose a number. They subtract the square of their number from nine times their number, then compare results. Whoever has the largest result wins. Describe a winning strategy and why it works.

Use Handout 1 to describe the thought processes you use while solving the problem.

### Make four Practice Cards

At your tables, agree on 4 SMP you used frequently and write one name of an SMP on each card, color-coding.

# For example:

- Yellow: Making sense of problems
- Blue: Make a conjecture
- Green: Reason quantitatively
- Red: Express regularity in repeated reasoning

# QUESTIONS FOR WHOLE GROUP DISCUSSION

- How did your use of the SMP help you solve the problem?
- In what ways did you interpret a particular SMP different from someone else in your group?

# PART 2: ADVANCING STUDENTS' USE OF SMP

Analyze student work as it relates to the Standards for Mathematical Practices (SMP)

- Choose 3 or 4 students' work and identify two SMP that you think students could have used in each work.
- Describe the student's current level of using the particular SMP.
- Write questions or prompts you could ask students to help them use the particular SMP at a more advanced level as you envision the use of SMP at that level.

# WHOLE GROUP DISCUSSION

Share your insights on 'more advanced uses of SMP'.

## REFLECTION

• In what ways could focusing on students' potential use of SMP support their learning of content standards?