

Mathematical Practice Virtual Professional Learning Series

Math Practice 6: Attend to Precision Facilitation Guide

Presenter: Brian Bickley

Intended Use

This facilitation guide is intended to be used by educators when viewing the voice-over recording of Math Practice 6: Attend to Precision. Districts and schools are encouraged to use this resource as part of a professional learning series that covers all 8 of the Standards for Mathematical Practice.

Viewing the recordings of the Math Practice sessions can be done in any order. To get the full benefit of the professional learning series, educators should engage in the tasks and participate in local discussions on the Mathematical Practice. Therefore, viewing the professional learning series in small groups is encouraged over individuals watching it in isolation.

Reproducing the Facilitation Guide

Please credit the Ohio Department of Education if making copies of any portion of this facilitation guide or accompanying PowerPoint presentation.

During Facilitation: Discussion Questions

For each discussion question(s), pause the recording and facilitate a group discussion.

Discussion Question

[PowerPoint Slide 9](#): Jam Board Activity

1. What comes to your mind when you think about MP 6: Attend to Precision?

Discussion Questions

[PowerPoint Slide 27](#): Look at Tasks That Promote MP 6 in slides 13-26

1. What do you notice?
2. What do you wonder?
3. What commonalities are evident across the tasks?
4. What are the differences across the tasks?
5. Where in the task are there opportunities for students to show their understanding of MP 6?

Discussion Questions

[PowerPoint Slide 30](#): Accuracy vs. Precision Video

1. Is it better to be accurate or precise? Defend your reasoning.

Discussion Questions

[PowerPoint Slide 38](#): Explore the resources for MP 6 on slides 33-37

1. What do you think of when MP 6?
2. What do you think Math Practice 6: Attend to Precision means or looks like at your grade level/course?

Resource Links

Ohio Department of Education Documents

- [Standards for Mathematical Practice](#)
- [Kindergarten-Grade 5](#)
- [Grades 6-8](#)
- [High School](#)

University of Arizona Progressions

- [Standards for Mathematical Practice: Commentary and Elaborations for K-5](#)
- [Standards for Mathematical Practice: Commentary and Elaborations for 6-8](#)

Other National Resources

- [Inside Mathematics](#)
- [Illustrative Mathematics](#)
- [Robert Kaplinsky: Math CCSS Math Practices Readable](#)

References

Harris, P. W., & Imm, K. L. (2017). *Algebra Problem Strings*. Dubuque, IA: Kendall Hunt.

Illustrative Mathematics. (2014, February 12). *Standards for Mathematical Practice: Commentary and Elaborations for K–5*. Tucson, AZ.

Illustrative Mathematics. (2014, May 6). *Standards for Mathematical Practice: Commentary and Elaborations for 6–8*. Tucson, AZ.

Koestler, C., Felton-Koestler, M. D., Bieda, K., & Otten, S. (2013). *Connecting the NCTM process standards and the CCSSM Practices*. Reston, VA: The National Council of Teachers of Mathematics.

O'Connell, S., & SanGiovanni, J. (2013). *Putting the practices into action: Implementing the common core standards for mathematical practice, K-8*. Portsmouth, NH: Heinemann.

Parrish, S. (2014). *Number talks: Helping children build mental math and computation strategies, grades K-5*. Sausalito, CA: Math Solutions.

Parrish, S., & Dominick, A. (2016). *Number talks: Fractions, decimals, and percentages*. Sausalito, CA: Math Solutions.

Conversation Notes: