

STANDARDS OF MATHEMATICAL PRACTICE

Read the story to help understand the standards.

Let's say I, Amy, ask Shaun to go get me a sandwich for lunch. Let's see how he figures out how to do this using the MPs.

- 1. Make sense of problems and persevere in solving them:** Shaun has to ask himself, "I wonder what kind of sandwich she wants." Then he has to figure out where to go get the sandwich.
- 2. Reason abstractly and quantitatively:** Shaun says to himself, "I'm pretty sure Amy will want only a 6 inch sandwich, and only one, not 20 sandwiches."
- 3. Construct a viable argument and critique the reasoning of others:** Shaun tells Kelly that he's going to get me a veggie sandwich. Kelly tells him he should really get me some chicken noodle soup and a salad. Shaun replies, "I disagree with you, Kelly. Amy's a vegetarian and doesn't eat chicken. I think I'll stick with the veggie sandwich, but you are right about the salad. She's always watching her caloric intake and she likes salad. I will pick one up."
- 4. Model with mathematics:** Shaun pulls out a piece of paper and creates a table with all the ingredients he knows I want on my sandwich to hand to the clerk at the deli. And then, just for fun, he draws a diagram of how it should be constructed.
- 5. Use appropriate tools strategically:** Realizing that the deli has an app, Shaun pulled out his iPhone, downloaded the app, and uses it to place the order ahead of time. Then he uses a map to find the deli.
- 6. Attend to precision:** Just to make sure the deli gets the order right, Shaun calls and speaks to the clerk. He states, "Be sure to include 3 tomato slices and 6 avocado slices. And yellow mustard, not Dijon."
- 7. Look for and make use of structure:** This MP has kids use what they already know to solve problems. Shaun says to himself, "I already know that the deli has a deal where you can get a sandwich and a side. I'll order that for Amy."
- 8. Look for and express regularity in repeated reasoning:** Shaun checks himself. He wants to use a strategy he's already used and check for reasonableness. He steps back, realizes he's ordered sandwiches from this deli before and knows a shortcut how to get there, checks the order to make sure it's correct, and heads off to get me lunch.

What a good friend!

Answer these questions to help you personalize the standards.

1. Which Standard of Mathematical Practice do you think you are already really good at? Explain why you think so.

2. Which Standard of Mathematical Practice do you think you need the most work on? Explain why you think so.