Video Transcript

FRAN DICKINSON: All right. Ryan, it looks like you have a question.

STUDENT: Um, well I have, I have a question for Teo. If it was a x val, y value, wouldn't you do the opposite of the x? So wouldn't you divide,

maybe?

STUDENT: I don't know. Do you know, Griffin?

FRAN DICKINSON: Griffin, you want to respond to that?

STUDENT: yeah. Well, I did it backwards, and I said, plus 3 instead of minus 3, and then divided by 3. So 0 plus 3 is 3, divided by 3 is 1.

FRAN DICKINSON: So we're doing a lot of talking about this rule. What is the rule? Can we write a rule here? That might help us to

understand what Griffin was saying by working backwards. Maggie?

STUDENT: x, 3, minus 3. No. x 3 minus 3.

FRAN DICKINSON: x3-3. Can you just kind of walk us through, what this is here?

STUDENT: like, x3 is x times 3.

FRAN DICKINSON: Okay. So x3 means x times 3? And then take away 3. So, I see some silent disagreement around the room. Is there anyone who cares to make a comment about that? Sam. Adams.

STUDENT: Well, maybe you could change that, I agree with x3-3 equals y, but maybe you can add something to it? x3-3=y?

FRAN DICKINSON: Oh, okay. So you would just like to add "equals y."

STUDENT: if some people could be unclear.

FRAN DICKINSON: My apologies for running out of space on my card here, but I've written "=y." I think that's a nice suggestion. I see some more silent disagreement in the room. Yes. Jonah?

STUDENT: I think it would make more sense if it said times 3 minus 3. Not x3 minus 3 because....

FRAN DICKINSON: So what do you propose, though?

STUDENT: Instead of, like saying x3, that could sound like, it's like a number instead of 3. It should just be times 3 minus 3.

FRAN DICKINSON: On our chart. So you're saying times 3, uh, minus 3.

STUDENT: Yeah.

FRAN DICKINSON: That's how you want to define that rule?

STUDENT: Or put the dot there, or something...

FRAN DICKINSON: Morgan. So $x \cdot 3 - 3$. All right.

STUDENT: I think that number's mixed around. I think it's 3x minus 3.

FRAN DICKINSON: Okay. So I can write it 3x-3. Why is this more right than this? Or is it more right than that? Do Maddie and Teo disagree? Turn to your partner and have that conversation.

rum to your partitor and have that conversation.

STUDENT: I think this could be x groups of 3, or 3 groups of x.

STUDENT: it's like 4 groups of 2, or 2 groups of 4. It's the same thing, but ...

STUDENT: It really matters how you look at it.

STUDENT: It matters in places, like if you have to get like, groups. Like if you have to get, like if you get 4 groups of 2, it's different than getting 2 groups of 4.

STUDENT: Oh! I get it.

FRAN DICKINSON: Great. I heard some great conversations happening around the room. Would anyone care to repeat out what they heard at their tables? Caitlin.

STUDENT: well, we thought that like the x should go after the 3, because that was in CPM.

FRAN DICKINSON: Oh. So the book told you to do it.

STUDENT: Yeah.

FRAN DICKINSON: So it must be right. STUDENT: The book made me do it.