

Determining What Students Are Thinking-Part 2

- 1 [Michelle Musumeci questions her eighth grade algebra students to help them clarify their
2 thinking]
- 3 Mrs. Musumeci: Right. My other question actually is 10 shirts and 15 shirts cost the
4 same amount.
- 5 D'Angelo: No. We were saying technically because if that's your first order.
- 6 Mrs. Musumeci: Right so then how come between 15 and 20 it increased, but
7 between 10 and 15 it didn't?
- 8 Eusebia: Because you have add the plus 50 for the first order and then the
9 second order you didn't.
- 10 D'Angelo: These are all your-- these right here are all your after orders. Like
11 how it said this would be your first order and your second, then
12 third.
- 13 Mrs. Musumeci: OK. So if I paid \$50 and then I do \$10 times 10 shirts, how much
14 money is that?
- 15 Eusebia: Ten times ten is 100.
- 16 D'Angelo: Then plus the 50 that's 150.
- 17 Mrs. Musumeci: OK that's \$1.50. So now, what if I pay that \$50 fee and then I do
18 15 times 10 shirts?
- 19 D'Angelo: Oh then that'd be \$200.
- 20 Eusebia: Yeah. So you have to pay the \$50 for the second one too?
- 21 D'Angelo: So did you want us to--
- 22 Mrs. Musumeci: So I want to know what does it cost for 15 shirts, and if you follow
23 this, you're telling me it cost \$200 for 15 shirts.
- 24 D'Angelo: Wait, did you want us to do the \$50 fee for each one?
- 25 Eusebia: For each one?
- 26 Mrs. Musumeci: No.
- 27 D'Angelo: Then this is the right answer?

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- 28 Mrs. Musumeci: So you're telling me that it costs \$150 for 15 shirts then.
- 29 Eusebia: Oh, that was your first order?
- 30 D'Angelo: Like if 15 was your first order?
- 31 Mrs. Musumeci: If 15 was your first order--
- 32 D'Angelo: No. Then it wouldn't.
- 33 Eusebia: Then it would be 200.
- 34 Mrs. Musumeci: OK. But see between here and here, you did increase it. So it was
35 like you're doing two different things I think. Because here--
- 36 D'Angelo: No, this is your first order. This is your first order. So minus the
37 \$50 it would just be--
- 38 Mrs. Musumeci: OK. I see what you're saying now. So you're kind of saying, all
39 right, we already pay the fee for 10. I want you to tell me-- you're
40 making a table to organize your info, but I want you to tell me how
41 much if each one of those was your first order.
- 42 Eusebia: OK. So this--
- 43 Mrs. Musumeci: OK.