

## Video Transcript

TRACY LEWIS: Did this mathematician answer the question?

STUDENTS: Yes.

TRACY LEWIS: Let's take a look at number 1. They said that there were 82 people. How did they answer this question? Victoria?

STUDENT: By... they actually used numbers, and words, and they used a picture to figure out. They told us how they did it, and they used base 10 blocks.

TRACY LEWIS: Okay. So we know what they did because, you're looking at the base 10 blocks. I counted the tens place, then the ones place, I got 82. So. Did this mathematician break these two numbers up? Where is the 63? Where is the 63? They said they added the tens place and the ones place. I see this number, 63, and I see this number, 19. Where is it? Where is it located? Sarah?

STUDENT: This number problem down here isn't correct. Because  $92 - 85$  ... it can't go over 92, and 140 is way over.

TRACY LEWIS: Okay, so you're making an observation about this problem. Can you hold that until we finish processing the first one?

STUDENT: Yes.

TRACY LEWIS: Okay, I definitely want to hear what you're saying. My question is, where is the 63? Shivani?

STUDENT: Right there.

TRACY LEWIS: Where is right there? Give me a ...

STUDENT: Right here.

TRACY LEWIS: Ah! So here's the 63. So this is where this mathematician put 63. And... can we say that this is the 19?

STUDENTS: Yes.

TRACY LEWIS: So we know, very clearly, that they counted the tens, all the tens. Are there eight tens up here? One, two, three, four, five, six, seven...Where did the other ten come from? Where'd the other ten come from?

TRACY LEWIS: Because they told me their answer is 82, but I only counted seven 10s. Can you tell what they did? Isaiah?

STUDENT: The other ten came from the 19.

TRACY LEWIS: Okay, but I counted that ten. I only got seven 10s. Where did that other one come from? Ka'Lon.

STUDENT: It came from the 1 from the 19, 'cause they add  $10 + 9 = 19$ , and  $63 + 19 = 82$ .

TRACY LEWIS:  $16 + 19 = 82$ .

STUDENT: 63.

TRACY LEWIS: 63! Okay. Aaron?

STUDENT: What they did is they took the, 1 from the 3, and they added it to the 9 in the 19.

TRACY LEWIS: They took the 1 from the 3 in the 63, and they added it to the 9. So Ka'Lon mentioned something about adding. He said he wished that this mathematician would have put in an addition symbol.

TRACY LEWIS: Can we figure out that they know that they were supposed to add?

STUDENT: And there's another way..

TRACY LEWIS: Hold on, Ka'Lon. I need someone to answer my question. We need to share the air. How do you know that you're supposed to add? Is there any clue in here that tells us that we're actually supposed to add? Lyanna?

STUDENT: Because it says how many people are going on the field trip.

TRACY LEWIS: It says how many people are going. Are parents people?

STUDENTS: Yes.

TRACY LEWIS: Are second graders people?

STUDENTS: Yes.

TRACY LEWIS: Okay. So let's take a look at what this mathematician did for the second part. Because Sarah jumped ahead and said, Oh! Ms. Lewis, this number sentence down here is not right!

TRACY LEWIS: So let's see what it says. The apple farm is 92 miles from the school. They have traveled 58 miles so far. Let's take a look at what this person did. They said,  $90 + 2 + 50 + 8 =$  equals...

STUDENTS: 140.

TRACY LEWIS: 140. Okay. I added the 90, that the 2, or maybe they meant then, to the 50 then the 8 I got 140. So...

STUDENT: It should be minus, and then, instead of the 0, they should have put the 2 in, so it would be 92, minus 58.

TRACY LEWIS: Oh, so you're noticing that they did break the 92 down into the tens and the ones, but you're thinking that this should be a subtraction? Does anybody else think that? What are you thinking? I'm not sure. What do you think? Lyanna?

STUDENT: I'm thinking, how did she figure out which one she's supposed to subtract?

TRACY LEWIS: Very good question. How did this... this mathematician thought we were supposed to add. So this mathematician took 92 and they took 58, they broke it down and they added it all together. But Sarah's saying, hm, I think they were supposed to subtract. Let's see if we can figure it out as we look at another sample. Okay?

TRACY LEWIS: Yes, Aaron.

STUDENT: I know why we're supposed to subtract, because it says how many more miles do they have to go?

TRACY LEWIS: So you're looking at the words that say, how many more.

STUDENT: How many more is the code!

TRACY LEWIS: How many more is the...

STUDENTS: Code!

TRACY LEWIS: Oh! It's a code! It's a code for what? How many more is a code for...what? It's a code for... I've heard from you, I've heard from you...I've heard from you...D'wone?

STUDENT: It's a code for the... number sentence?

TRACY LEWIS: It's a code for the number sentence? It's supposed to tell you something about the number sentence. Let's take a look at the next poster.