Math Grade 3 B

Grade Level Standard(s):

KY.3.NBT.2

Materials:

- Elementary Math Counters (found in the white Supplemental Materials envelope)
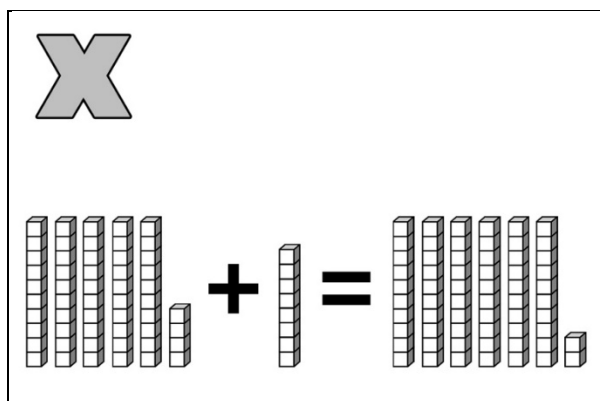
- Math 3 B Attainment Task Questions for Student Use

Response Code:

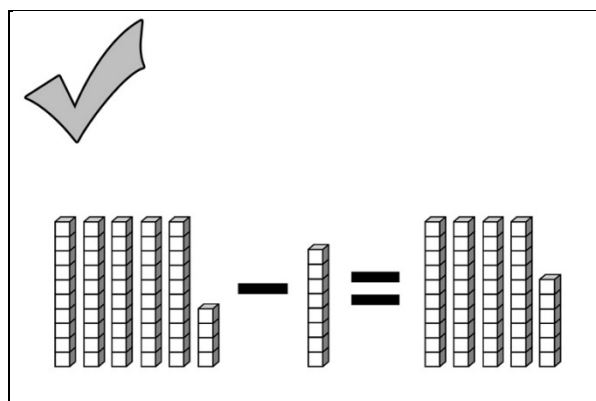- Indicate the answer provided by the student.

Text Coding:

- "Quotation marks" indicate the script that the teacher should read to the student.
- *Italicized text* provides further direction for the test administrator.
- Words in parenthesis ( ) are optional; they may replace or be read in addition to the word(s) immediately preceding.

a. No, because $54 + 8 = 62$ students

b. Yes, because $54 - 8 = 46$ students

c. Not enough information

Before beginning task administration, please ensure that all conditions specified in the administration protocol (starting on page 10 of the Administration Guide Overview and Attainment Task Administration) have been met. Inform the student that the task is about to start by saying, "We are about to start the task, and I am going to ask you some questions."

All questions from this task are available for presentation to the student in the supplemental material Math 3 B Attainment Task Questions for Student Use.

Present the student with Elementary Math Counters *and tell them to use the counters to model the problems.*

"The school is having field day. All of the classes compete against each other in different activities. There are four 3rd grade classes. They will form two groups."

"Ms. Gonzales' and Mr. Brown's classes pair up to make Team Red. Team Red is supposed to have 54 students on it."

3. "Eight (8) of the 54 students from Team Red will not be able to participate in field day. Jonas says Team Red will have 46 students left. Use the counters to model the problem. Is Jonas correct?"

Response Option	*Response Rationale*
a. No, because $54 + 8 = 62$ students	*The student models the problem but uses the incorrect operation and adds instead of subtracts.*
b. Yes, because $54 - 8 = 46$ students **(Correct)**	*The student models the problem correctly by subtracting eight from* 54.
c. Not enough information	*The student does not recognize the quantities needed to set up or model the problem.*
Depth of Knowledge (DOK) 2	

Math 3 B Attainment Task Questions for Student Use

3. Eight (8) of the 54 students from Team Red will not be able to participate in field day. Jonas says Team Red will have 46 students left. Use the counters to model the problem. Is Jonas correct?

Kentucky Academic Standard: KY.3.NBT.2 - Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations and/or the relationship between addition and subtraction. **MP.2, MP.3**

Alternate Assessment Target: *Limit to addition and subtraction of two 1-digit or 2-digit numbers.*

Student Group	Number of Students*	Percent Correct
All Students	533	56.47%
Gender		
Female	160	58.13%
Male	373	55.76%
Ethnicity		
African American	54	51.85%
American Indian or Alaska Native	<10	Not Reported
Asian	11	90.91%
Hispanic of Latino	<10	Not Reported
Native Hawaiian of Pacific Islander	<10	Not Reported
White (Non-Hispanic)	392	53.83%
Two or More Races	75	68.00%
English Learner	47	61.70%
Economically Disadvantaged	422	56.64%

*Number of students that attempted the item