

Baseline Equality Assessment - FORM A

Attached are five problems to give to all students in your classroom. Once photocopied, please cut the sheets in half so that students have only one problem at a time (or cut them in half after students have worked on them).

You can give all 5 problems in one day or spread across different days. Ask your students to write their answer and how they solved each problem so that you will know what each student was thinking.

You may read any problems to students.

Have manipulatives or counters available. Students can use manipulatives, drawings, equations or mental math to solve problems.

NOTE: For problem #2, collect the student work and then have a class discussion about why students thought the number sentence was true or false. Record some of the student ideas on the recording sheets.

Fill out the recording sheets.

Bring your students' work and your recording sheets to the PLC meeting.

BASELINE ASSESSMENT – FORM A – Recording Student Responses

The assessment items were developed from the work described by Tom Carpenter and Eric Knuth. Please give this assessment to at least one class that you are teaching. The assessment will take students approximately 10-15 minutes to complete. Please do not help the students as they take the Summative Assessment. Please tell them that you are not able to help them with any question. Use the scoring grids below to tally the results of all your students and give the results to your PLC facilitator.

1. What number can you put in the box to make this sentence true?

$$2 + 3 = \square$$

Response: Q2	# students
5 (correct response)	
other incorrect	
no response/don't know	

2. Is the sentence below true or false? _____

$$10 = 6 + 4$$

Tell why you said it was true or why you said it was false.

Response: Q1	# students
true (correct response)	
true with no explanation (correct response)	
true but . . . (e.g. "It is true but it is backwards.") (kinda correct response)	
false	
no response/don't know	

3. What number can you put in the box to make this sentence true?

$$8 + 4 = \square + 5$$

Response: Q2	# students
7 (correct response)	
12	
17	
12 and 17	
other incorrect	
no response/don't know	

4. What number can you put in the box to make this sentence true?

$$3 + \square = 5 + 2$$

Fill in other responses as needed.

Response: Q3	# students
4 (correct response)	
2	
10	
2 & 10	
other incorrect	
no response/don't know	

5. The East and West soccer teams have the same number of players on each team. There are 8 girls and 4 boys on the East Team. If there are 5 boys on the West Team, how many girls are there on the West Team? Explain you thinking.

Answer: 7 girls

Response: Q5	# students	
	correct	incorrect
answer only		
relational thinking		
operational thinking		
other		
no response don't know		

Sample responses:

relational thinking	operational thinking (calculate)
“There is 1 more boy on the West Team so there has to be 1 fewer girls.”	“8 + 4 is 12 so there are 12 players on the East Team. There must be 7 girls on the West Team to make 12 palyers in all.”