



Mathematics Benchmark

Constructed Response Grade Level Feedback

This feedback form is used as grade level teams of teachers review student work samples. This report should be shared with the school learning team as decisions are made for the Mathematics Section of the School Improvement Plan.

Grade: 8

Item Description: Congruent Triangle

Part 1: Sample Scores from Student Work Papers

After scoring papers compile the results and provide scores in the boxes. By providing scores from student samples; student strengths and challenges can be addressed by grade level teachers and school learning teams.

Student	Content Point	Process Point	Total Points
A	1	0	1
B	1	1	2
C	1	1	2
D	1	1	2
E	1	2	3
F	1	2	3

Part 2: Feedback on grade Level Papers:

This section is written after all grade level papers have been scored. Highlight the strengths of the student work samples and offer suggestions to guide instruction.

- Most students saw this prompt as doable and found an entry point even when misconception where evident.
- Most students demonstrated an understanding that they had to move around the coordinate plane.
- Many Students demonstrated an ability of translating and reflecting.
- Some students clearly communicated their reasoning while some student explanations lacked clarity and specificity.
- The understanding of congruence is very basic in most of the student's explanations.
- There was little reference to congruency properties in their explanations (i.e. side to side or angle to angle).
- Some students appear to have a misconception that congruency and similarity are the same in this situation.
- Another misconception of proving congruency was apparent when students explained that the two triangles were congruent since they looked the same, just not in the same position.
- Give students the opportunity to explore the meaning of congruency through the use of technology such as SMART Boards, Geometer Sketchpad, Cabri Jr, etc.
- Students should be provided opportunities to analyze work samples to identify strengths and areas that need improvement in written explanations.
- Build appropriate mathematics vocabulary: reflections, rotations, translation, transformation, and congruent.