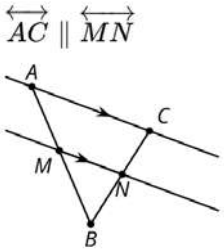
Geometry

November Extended Constructed Response (ECR) Name:

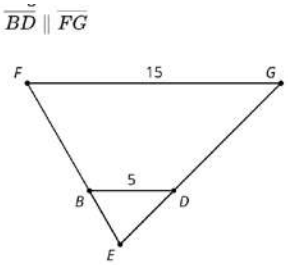
Part A:



Patty says that " a line parallel to one side of a triangle always create similar triangles". Use the diagram above to explain if Patty's conjecture is true or false.

Part B:

Segments BD and FG are parallel. Segment EG is 12 units long.



Find the measure of segment DG. Show your work

Geometry

Score Rubric

Part A	
Score	Description
3	Student response includes the following 3 elements. Reasoning component = 3points * State that conjecture is true * Use the angle relationships of parallel lines to support the reasoning (students should indicate what types of relationship for the pairs of angles that they used for their reasoning) * Use triangle similarity postulates to support the conjecture. Sample of student explanation: Patty's conjecture is correct. Because $\overleftrightarrow{AC} \parallel \overleftrightarrow{MN}$ So angle BNM ≅ angle BCA (corresponding angles) Angle BMN ≅ angle BAC (corresponding angles) Triangle BNM ≅ Triangle BCA (AA)
2	Student response includes 2 of 3 element
1	Student response includes 1 of 3 element
0	Student response is incorrect or irrelevant
Part B	
Score	Description
2	Student response includes the following 2 element. • Correct computation to find the answer • Logical progression (showing work) toward problem solving, Sample of student work $\frac{5}{15} = \frac{ED}{12}$ ED = 4 EG – ED = DG 12-4 = 8 DG= 8
1	Student response includes 1 of 2 element
0	Student response is incorrect or irrelevant

Genesis Convert Table

Task Point	Genesis Score
0	55
1	59
2	69
3	79
4	89
5	100