

You Be the Judge

Directions:

Pages 12-14 contain six responses written by students throughout New Jersey to the question you just answered on page 11. Read each of these responses carefully. In the space below indicate which three are the best responses and which three are the worst. Use the *Comments* section to tell why each answer is one of the best or one of the worst. In addition, answer these two questions: Does this response show an approach or method that is different from yours? If so, tell how it is different.

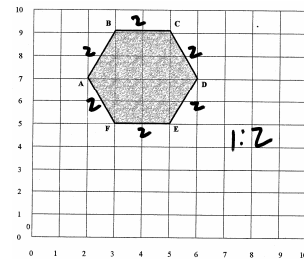
- Does this response contain errors? If so, tell how to correct the errors.

Three best responses: _____ Three worst responses: _____

Tell why: _____

Response 1:

Hexagon A is similar to Hexagon B. The sides are in a ratio of 1:2. Each side of hexagon A measures 2 units.



Comments: _____

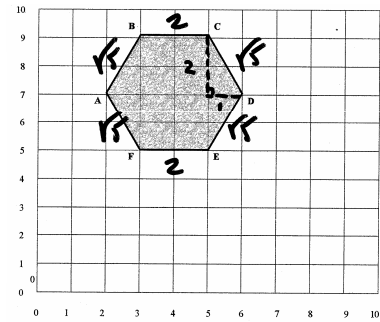


Response 2:

The length of side AB is $\sqrt{5}$ because I used the Pythagoren Therom.

Side BC and EF are each 2 units.

Hexagon A can't be similar to Hexagon B because only some of the sides are proportional



Comments: _____

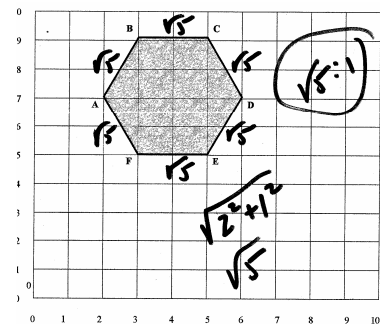
Response 3:

I drew the right triangle and used $a^2 + b^2 = C^2$. So the big side is about 2.23 so all the diagonal sides are that. Then the other sides are 2. So the hexagons are the same shape but they are not the same size.

Comments: _____

Response 4:

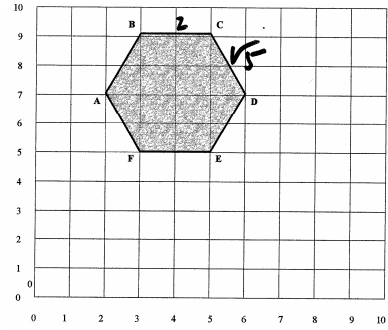
The sides are all $\sqrt{5}$. So there is a ratio of $\sqrt{5} : 1$ so the hexagons are similar.



Comments: _____

Response 5:

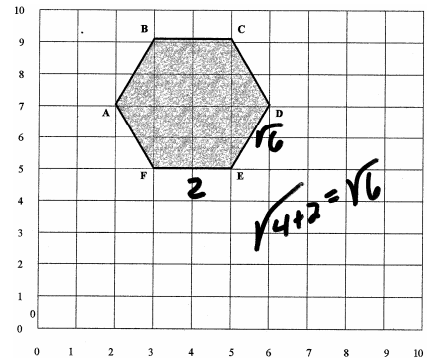
Hexagon A and Hexagon B are NOT similar. They are not in a proportion. The sides of the Hexagon A are not equal but the sides of the other one are.



Comments: _____

Response 6:

Use the pythagorean thing and get $a^2 + b^2 = c^2$. so 4 of the sides are the square root of 6. The other 2 sides are 2. They are not similar to the other one cause all the sides in B is 1.



Comments: _____

