Calculating the Perimeter of a Shape

7/7 points (100%)

Quiz, 7 questions

Congratulations! You passed!

Next Item



1/1 points

1.

What is the perimeter of the shape made from the file **datatest4.txt** whose contents are shown below (just give to two decimal places)?

- -3, 9
- -8, 7
- -12, 4
- -6, -2
- -4, -6
- 2, -8
- 6, -5
- 10, -3
- 8, 5
- 4, 8



1/1 points

2.

What is the average length of a side in the shape made from the file datatest4.txt whose contents are shown below (just give to two decimal places)?

Calculating the Perimeter of a Shape

7/7 points (100%)

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- 3, 9
 - -8, 7
 - -12, 4
 - -6, -2
 - -4, -6
 - 2, -8
 - 6, -5
 - 10, -3
 - 8, 5
 - 4, 8



1/1 points

What is the longest side in the shape made from the file datatest1.txt whose contents are shown below (just give to two decimal places)?

- -3,3
- -4,-3
- 4,-2
- 6,5



1/1 points

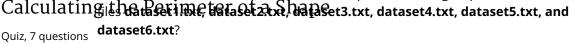
What is the largest perimeter of a shape made from the shapes in files example1.txt, example2.txt, example3.txt and example4.txt (just give to two decimal places)?



1/1 points 5.

What is the name of the file that has the shape with the largest perimeter from the six Calculating the Berime terastack hapset3.txt, dataset4.txt, dataset5.txt, and

7/7 points (100%)





The method getNumPoints returns the number of points in a Shape s.

Which one of the following is NOT a correct implementation of getNumPoints?



7.

Consider the following code for the function mysteryShape that has one parameter a Shape s and calls the function getNumPoints from the assignment.

```
public double mysteryShape (Shape s) {
      double tmp = 0;
 3
      for (Point p : s.getPoints()) {
 4
 5
        if (p.getX() > 0) {
 7
           if (p.getY() < 0) {
 8
             tmp = tmp + 1;
 9
10
        }
11
12
      return tmp / getNumPoints(s);
13
14
```

Which one of the following best describes the purpose of this function?

