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

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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)?

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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

3.
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

4.
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

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5.

What is the name of the file that has the shape with the largest perimeter from the six files **dataset1.txt, dataset2.txt, dataset3.txt, dataset4.txt, dataset5.txt, and dataset6.txt**?

1 / 1 points

6.

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

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

1 / 1 points

7.

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

```
1  public double mysteryShape (Shape s) {
2    double tmp = 0;
3    for (Point p : s.getPoints()) {
4
5      if (p.getX() > 0) {
6
7        if (p.getY() < 0) {
8          tmp = tmp + 1;
9        }
10     }
11   }
12   return tmp / getNumPoints(s);
13 }
14
15
```

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