Calculating the Perimeter of a Shape

Quiz, 7 questions

1 point
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
Enter answer here
1 point

2.

What is the average length of a side in the shape made from the file **datatest4.txt** whose Calculating the remarks (Light Appendix Records)?

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Quiz, 7 questio	ons -3, 9
	-8, 7
	-12, 4
	-6, -2
	-4, -6
	2, -8
	6, -5
	10, -3
	8, 5
	4, 8
	Enter answer here
	1 point
	3. What is the longest side in 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

Enter answer here

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1	
point	

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)?

Enter answer here

1
point

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, dataset5.txt, and dataset6.txt?

dataset1.txt
dataset2.txt
dataset3.txt
dataset4.txt
dataset5.txt
dataset6.txt

1 point

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?

```
public int getNumPoints (Shape s) {
  int count = 0;
  for (Point p : s.getPoints()) {
    int newPoint = 1;
    count = count + newPoint;
  }
  return count;
  }
}
```

```
1 public int getNumPoints (Shape s) {
2    int count = 0;
3    int newPoint = 1;
4    for (Point p : s.getPoints()) {
5       count = count + newPoint;
6    }
7    return count;
8 }
```

```
public int getNumPoints (Shape s) {
   int count = 0;
   for (Point p : s.getPoints()) {
      count = count + count;
   }
   return count;
   }
}
```

```
1
point
```

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;
 2
 3
       for (Point p : s.getPoints()) {
 4
         if (p.getX() > 0) {
 5
 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?

The function computes the percentage of those points from the Shape s that have a
positive X or a negative Y.

- The function computes the **sum** of those points from the Shape s that have a **positive X** and a **negative** Y.
- The function computes the **percentage** of those points from the Shape s that have a **positive X** and a **negative Y**.
- The function computes the **sum** of those points from the Shape s that have a **positive X** or a **negative Y**.

I, Maruf Hassan, understand that submitting work that isn't my own may result in permanent