

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

59.45

1 point

2. What is the average length of a 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

7.32

1 point

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

9.21

1 point

4. What is the largest perimeter of a shape made from the shapes in files **dataset1.txt, dataset2.txt, dataset3.txt, dataset4.txt, dataset5.txt, and dataset6.txt** (just give to two decimal places)?

62.65

1 point

5. What is the name of the file that has the shape with the largest perimeter from the four files **example1.txt, example2.txt, example3.txt and example4.txt**?
- ☐ example1.txt
- ☐ example2.txt
- ☒ example3.txt
- ☐ example4.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`?



```
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 }
```



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5     }  
6     return count;  
7 }
```

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.

```
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?



The function computes the **sum** of those points from the `Shape s` that have a **positive X** or 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 **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**.

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