



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 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

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

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



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4         count = count + count;  
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 **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** 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 **sum** of those points from the Shape `s` that have a **positive X** and a **negative Y**.

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