M4: Quiz 4

Due Feb 8 at 11:59pm **Points** 30 **Questions** 10

Time Limit 12 Minutes

This quiz is no longer available as the course has been concluded.

Attempt History

	Attempt	Time	Score	
LATEST	Attempt 1	12 minutes	24 out of 30	

Score for this quiz: **24** out of 30 Submitted Feb 8 at 9:48pm This attempt took 12 minutes.

Question 1 3 / 3 pts

Use the following code, which is the same for all questions, to complete the quiz.

The scope of the variable radius is limited to the constructor.

```
🔁 public class Circle
  private double radius;
     public Circle(double radiusIn) {
       radius = radiusIn;
   public double getRadius() {
      return radius;
     public void setRadius(double radiusIn) {
       radius = radiusIn;
     public double area() {
       return Math.PI * Math.pow(radius, 2);
   public String toString() {
      - return "The circle has radius " + radius
          + " and area " + area();
_}
True
```

False

Question 2

Use the following code, which is the same for all questions, to complete the quiz.

3 / 3 pts

Which of the following are considered instance data? (choose all that apply)

```
🔁 public class Circle
  private double radius;
     public Circle(double radiusIn) {
       radius = radiusIn;
    public double getRadius() {
       return radius;
     public void setRadius(double radiusIn) {
       radius = radiusIn;
     public double area() {
       return Math.PI * Math.pow(radius, 2);
   public String toString() {
      - return "The circle has radius " + radius
          + " and area " + area();
_}
 radiusIn
 setRadius(double radiusIn)
 toString()

✓ radius

 none of the above
```

Question 3

0 / 3 pts

Use the following code, which is the same for all questions, to complete the quiz.

Which of the following violate encapsulation? (choose all that apply)

```
🔁 public class Circle
                private double radius;
                   public Circle(double radiusIn) {
                     radius = radiusIn;
                   public double getRadius() {
                     return radius;
                   public void setRadius(double radiusIn) {
                     radius = radiusIn;
                   public double area() {
                     return Math.PI * Math.pow(radius, 2);
                 public String toString() {
                    return "The circle has radius " + radius
                        + " and area " + area();
              _}
u Answered
               ✓ radiusIn
u Answered
               setRadius(double radiusIn)
u Answered

✓ toString()
              radius
rrect Answer
              none of the above
```

Question 4 3 / 3 pts

Use the following code, which is the same for all questions, to complete the quiz.

M4: Quiz 4: CPSC 1213: Introduction to Computer Science I Which of the following are accessor methods? (choose all that apply) 💳 public class Circle private double radius; public Circle(double radiusIn) { radius = radiusIn; public double getRadius() { return radius; public void setRadius(double radiusIn) { radius = radiusIn; public double area() { return Math.PI * Math.pow(radius, 2); public String toString() { return "The circle has radius " + radius + " and area " + area(); _} radiusIn setRadius(double radiusIn) getRadius() radius none of the above

Question 5

3 / 3 pts

Use the following code, which is the same for all questions, to complete the quiz.

M4: Quiz 4: CPSC 1213: Introduction to Computer Science I Which of the following are mutator methods? (choose all that apply) public class Circle private double radius; public Circle(double radiusIn) { radius = radiusIn; public double getRadius() { return radius; public void setRadius(double radiusIn) { radius = radiusIn; public double area() { return Math.PI * Math.pow(radius, 2); public String toString() { - return "The circle has radius " + radius + " and area " + area(); radiusIn ✓ setRadius(double radiusIn) getRadius() radius

Correct!

none of the above

Question 6

Use the following code, which is the same for all questions, to complete the quiz.

Which of the following are Constructors? (choose all that apply)

3 / 3 pts

```
🔁 public class Circle
  private double radius;
     public Circle(double radiusIn) {
       radius = radiusIn;
   public double getRadius() {
      return radius;
     public void setRadius(double radiusIn) {
       radius = radiusIn;
     public double area() {
       return Math.PI * Math.pow(radius, 2);
   public String toString() {
      - return "The circle has radius " + radius
          + " and area " + area();
_}
radiusIn
setRadius(double radiusIn)
toString()
radius
 none of the above
```

Question 7 3 / 3 pts

Use the following code, which is the same for all questions, to complete the quiz.

What is the return type of the setRadius() method?

```
🔁 public class Circle
  private double radius;
     public Circle(double radiusIn) {
      radius = radiusIn;
   public double getRadius() {
      return radius;
     public void setRadius(double radiusIn) {
       radius = radiusIn;
     public double area() {
       return Math.PI * Math.pow(radius, 2);
   public String toString() {
      - return "The circle has radius " + radius
          + " and area " + area();
_}
void
```

- radiusIn
- radius
- String
- none of the above

Question 8

0 / 3 pts

Use the following code, which is the same for all questions, to complete the quiz.

Which one of the following is a constant?

```
🔁 public class Circle
               private double radius;
                  public Circle(double radiusIn) {
                    radius = radiusIn;
                 public double getRadius() {
                    return radius;
                   public void setRadius(double radiusIn) {
                    radius = radiusIn;
                   public double area() {
                    return Math.PI * Math.pow(radius, 2);
                 public String toString() {
                   - return "The circle has radius " + radius
                        + " and area " + area();
              _}
              radiusIn
u Answered
              radius
rrect Answer
              Math.PI
              Circle
              none of the above
```

Question 9 3 / 3 pts

Use the following code, which is the same for all questions, to complete the quiz.

Which of the following are access modifiers used in the Circle class? (choose all that apply)

```
🔁 public class Circle
  private double radius;
     public Circle(double radiusIn) {
      radius = radiusIn;
   public double getRadius() {
      return radius;
     public void setRadius(double radiusIn) {
      radius = radiusIn;
     public double area() {
       return Math.PI * Math.pow(radius, 2);
   public String toString() {
      - return "The circle has radius " + radius
          + " and area " + area();
_}
radiusIn
 ✓ private
Math.PI
Circle
none of the above
```

Question 10 3 / 3 pts

Use the following code, which is the same for all questions, to complete the quiz.

How many methods does the Circle class have?

```
😑 public class Circle
  private double radius;
    public Circle(double radiusIn) {
      - radius = radiusIn;
   public double getRadius() {
      - return radius;
     public void setRadius(double radiusIn) {
      radius = radiusIn;
     public double area() {
      return Math.PI * Math.pow(radius, 2);
   public String toString() {
     - return "The circle has radius " + radius
          + " and area " + area();
_}
0
1
2
3
4
```

Quiz Score: 24 out of 30