

Java Level 2 Practice - Selected Difficult Questions

Question 2: Area of Triangle in sq cm and sq in

```
import java.util.Scanner;

class TriangleArea {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        double base = input.nextDouble();
        double height = input.nextDouble();
        double areaCm = 0.5 * base * height;
        double areaIn = areaCm / (2.54 * 2.54);
        System.out.println("The Area of the triangle in sq in is " + areaIn + " and sq
cm is " + areaCm);
    }
}
```

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Question 4: Convert Distance from Feet to Yards and Miles

```
import java.util.Scanner;

class DistanceConverter {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        double feet = input.nextDouble();
        double yards = feet / 3;
        double miles = yards / 1760;
        System.out.println("The distance in yards is " + yards + " while the distance in
miles is " + miles);
    }
}
```

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Question 7: Integer Operations with Precedence

```
import java.util.Scanner;

class IntOperation {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        int a = input.nextInt();
        int b = input.nextInt();
        int c = input.nextInt();
        int res1 = a + b * c;
        int res2 = a * b + c;
        int res3 = c + a / b;
        int res4 = a % b + c;
        System.out.println("The results of Int Operations are " + res1 + ", " + res2 +
            ", " + res3 + ", " + res4);
    }
}
```

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Question 8: Double Operations with Precedence

```
import java.util.Scanner;

class DoubleOpt {
    public static void main(String[] args) {
        Scanner input = new Scanner(System.in);
        double a = input.nextDouble();
        double b = input.nextDouble();
        double c = input.nextDouble();
        double res1 = a + b * c;
        double res2 = a * b + c;
        double res3 = c + a / b;
        double res4 = a % b + c;
        System.out.println("The results of Double Operations are " + res1 + ", " + res2
+ ", " + res3 + ", " + res4);
    }
}
```