**Weekly Java Question Bank for Students**

**Week 1 Test – First Programs**

**🔹 MCQs (Choose the correct option)**

1. Which method is always present in every Java program?  
   a) start()  
   b) main()  
   c) run()  
   d) println()  
   **Answer: b) main()**
2. Which symbol is used to end a statement in Java?  
   a) :  
   b) .  
   c) ;  
   d) ,  
   **Answer: c) ;**

**🔹 Fill in the Blanks**

1. The keyword used to print output in Java is \_\_\_\_\_\_\_\_.  
   **Answer: System.out.println**
2. A Java program always starts execution from the \_\_\_\_\_\_\_\_ method.  
   **Answer: main**

**🔹 True / False**

1. In Java, every program must be inside a class. (True)
2. System.out.print and System.out.println both print in a new line. (False)

**🔹 Small Program**

Q: Write a program to print your name and school name.

**Week 2 Test – Arithmetic Basics**

**🔹 MCQs**

1. Which operator is used for division in Java?  
   a) %  
   b) /  
   c) \*  
   d) -  
   **Answer: b) /**
2. int a = 10, b = 3; System.out.println(a % b); → Output?  
   a) 0  
   b) 1  
   c) 2  
   d) 3  
   **Answer: c) 1**

**🔹 Fill in the Blanks**

1. The symbol used for multiplication is \_\_\_\_\_\_\_\_.  
   \*\*Answer: \*\*\*
2. The operator % is called \_\_\_\_\_\_\_\_.  
   **Answer: Modulus (Remainder) operator**

**🔹 True / False**

1. 10 / 3 gives 3 as result in integer division. (True)
2. In Java, addition is written as add(a,b). (False)

**🔹 Small Program**

Q: Write a program to add, subtract, multiply and divide two numbers.

**Week 3 Test – Working with Numbers**

**🔹 MCQs**

1. The square of 7 is:  
   a) 14  
   b) 49  
   c) 21  
   d) 77  
   **Answer: b) 49**
2. Which variable temporarily stores a value during swapping?  
   a) swap  
   b) temp  
   c) result  
   d) change  
   **Answer: b) temp**

**🔹 Fill in the Blanks**

1. n \* n \* n gives the \_\_\_\_\_\_\_\_ of n.  
   **Answer: Cube**
2. To swap two numbers, we need a \_\_\_\_\_\_\_\_ variable.  
   **Answer: Temporary**

**🔹 True / False**

1. Cube of 2 is 6. (False)
2. Double of 15 is 30. (True)

**🔹 Small Program**

Q: Write a program to find square, cube, and double of your roll number.

**Week 4 Test – Area and Perimeter**

**🔹 MCQs**

1. Formula for area of a rectangle?  
   a) l + w  
   b) l \* w  
   c) 2(l + w)  
   d) 2lw  
   **Answer: b) l \* w**
2. Formula for area of circle?  
   a) πr  
   b) 2πr  
   c) πr²  
   d) r²  
   **Answer: c) πr²**

**🔹 Fill in the Blanks**

1. Perimeter of a square = \_\_\_\_\_\_\_\_.  
   **Answer: 4 × side**
2. Area of rectangle = \_\_\_\_\_\_\_\_.  
   **Answer: length × width**

**🔹 True / False**

1. The formula of perimeter of rectangle is 2(l + w). (True)
2. π (pi) value is exactly 3.14. (False, it is approximate).

**🔹 Small Program**

Q: Write a program to calculate area and perimeter of a rectangle.

**Week 5 Test – Simple Applications**

**🔹 MCQs**

1. Formula of Simple Interest is:  
   a) P × R × T  
   b) (P × R × T) / 100  
   c) (P + R + T) / 100  
   d) None  
   **Answer: b) (P × R × T) / 100**
2. The average of 10, 20, 30 is:  
   a) 15  
   b) 20  
   c) 25  
   d) 30  
   **Answer: b) 20**

**🔹 Fill in the Blanks**

1. To find average of three numbers, we add them and divide by \_\_\_\_\_\_\_\_.  
   **Answer: 3**
2. In SimpleInterest program, P stands for \_\_\_\_\_\_\_\_.  
   **Answer: Principal**

**🔹 True / False**

1. Average of 5, 10, 15 is 10. (True)
2. Simple Interest formula has division by 10. (False, division by 100).

**🔹 Small Program**

Q: Write a program to calculate Simple Interest.

**Week 6 Test – Using If Conditions**

**🔹 MCQs**

1. In if (a > b), if a=10 and b=5, then:  
   a) a is smaller  
   b) b is greater  
   c) a is greater  
   d) Equal  
   **Answer: c) a is greater**
2. Which operator is used for checking even/odd?  
   a) /  
   b) %  
   c) \*  
   d) ==  
   **Answer: b) %**

**🔹 Fill in the Blanks**

1. if (n % 2 == 0) means number is \_\_\_\_\_\_\_\_.  
   **Answer: Even**
2. In decision making, Java uses the keyword \_\_\_\_\_\_\_\_.  
   **Answer: if**

**🔹 True / False**

1. Every if statement must have an else. (False)
2. A number divisible by 2 is always even. (True)

**🔹 Small Program**

Q: Write a program to check whether a number is even, odd, or negative.

✅ With these **weekly tests**, we can check if we understood the programs and formulas step by step.