



# INDIAN SCHOOL AL WADI AL KABIR

<b>Class: VII</b>	<b>Department: Computer Science</b>	<b>Year: 2025-2026</b>
<b>Worksheet with solutions</b>	<b>Subject: Computer Science</b> <b>Topic: Exploring math with coding</b>	

## i) Multiple choice questions?

1. Which of the following condition is a conditional statement?
  - a) For loop
  - b) Boolean
  - c) **If else**
  - d) Print
2. Which of the following is used as less than or equal to operator?
  - a) **<=**
  - b) **>=**
  - c) **==**
  - d) **!=**
3. Which block progresses the code, if either of the condition specified to it are true?
  - a) **OR**
  - b) AND
  - c) NOT
  - d) NOR

## ii) Fill in the blanks?

1. AND block progresses the code, if both the conditions specified to it are true.
2. Relational operators determine the result of code based on the relations of the variables involved.
3. **>=** stands for greater than or equal to.

4. When an angle measure equal to 90 degrees, it is called right angle.
5. != operators signifies Not equals to operators.
6. Whenever two lines intersect at a common point, they form an angle between the point of contact.
7. NOT operator reverses the logic of the code when the conditions are false.

### iii) True or False

1. Strictly less value is used if the left value is less than the right value - True
2. When an angle measure 270 degrees, it will be called as an Obtuse angle – False
3. OR operator is used if when both conditions are true. – False
4. When an angle measures exactly 180 degrees is called a complete angle- False

### iv) Match the following

- |    |                                                                                     |                                      |
|----|-------------------------------------------------------------------------------------|--------------------------------------|
| 1. |  | a. Strictly greater than             |
| 2. |  | b. It reverses the logic of the code |
| 3. |  | c. Strictly lesser than              |
| 4. |  | d. equal to                          |

**Answers: 1 - b, 2 - a, 3 - d, 4 – c**

## **v) Answer the following?**

### 1. What do you understand by if statements?

It is a conditional statement. The conditional statements help us to direct the computer what to do and when to do it.

### 2. illustrate the difference between < and <=operator?

(< less than) The condition is true if the left value is less than the right value.

(<=less than or equal to) The condition is true if the left value is less than or equal to the right value.

### 3. Write is the difference between “and” and “or” operators?

‘AND’ block progresses the code, if both the conditions specified to it are true.

‘OR’ block progresses the code, if either of the conditions specified to it are true.

### 4. What do you understand by Obtuse Angle?

When an angle measures more than 90 degrees and less than 180 degrees, it is called an Obtuse Angle.