

IGCSE Computer Science

Name: _____ Score: _____

1. What is the difference between a variable and a constant?

- ☐ they are the same thing; both names can be used either way
- ☐ a variable cannot hold a number, only text or true/false values
- ☐ a constant can change while the program runs; a variable is fixed
- ☐ a variable can change while the program runs; a constant is fixed

2. What is '17 MOD 5'?

3. An array is:

- ☐ one variable that holds many values of the same type, found by an index
- ☐ several variables of different types grouped together
- ☐ a file on disk that stores a program's output
- ☐ a single value stored in one memory location

4. Which structure chooses which steps to run based on a condition?

- ☐ sequence (steps in order)
- ☐ a procedure (a named block)
- ☐ iteration (FOR / WHILE)
- ☐ selection (IF / CASE)

5. What is '17 DIV 5'?

6. In 'grid[2, 3]', which cell is accessed?

- ☐ row 3, column 2
- ☐ row 2, column 3
- ☐ column 2 only
- ☐ the 23rd element

7. A REPEAT...UNTIL loop tests its condition before the body, so it may run zero times.

- ☐ True
- ☐ False

8. What does 'LENGTH("Computer")' return?

9. You should always close a file when you have finished using it.

☐ True ☐ False

10. Which line keeps a running total?

☐ $\text{Total} \leftarrow 0$

☐ OUTPUT Total

☐ $\text{Count} \leftarrow \text{Count} + 1$

☐ $\text{Total} \leftarrow \text{Total} + \text{Value}$

1. a variable can change while the program runs; a constant is fixed

A variable's value can change; a constant is set once and never changes.

2. 2

MOD gives the remainder: $17 \div 5 = 3$ remainder 2.

3. one variable that holds many values of the same type, found by an index

An array stores many same-type values under one name; each is accessed by its index.

4. selection (IF / CASE)

Selection branches on a condition; sequence runs in order; iteration repeats.

5. 3

DIV gives the whole-number part: $17 \div 5 = 3$ (remainder discarded).

6. row 2, column 3

The first index is the row, the second the column – row 2, column 3.

7. False

False. REPEAT...UNTIL tests after the body, so it always runs at least once. A WHILE loop tests first and may run zero times.

8. 8

"Computer" has 8 characters.

9. True

Closing saves any buffered data and frees the file for other programs.

10. $\text{Total} \leftarrow \text{Total} + \text{Value}$

' $\text{Total} \leftarrow \text{Total} + \text{Value}$ ' accumulates the sum; ' $\text{Count} \leftarrow \text{Count} + 1$ ' counts occurrences.