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

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

   ☐ True ☐ False

10. Which line keeps a running total?

    ☐ Total ← 0

    ☐ OUTPUT Total

    ☐ Count ← Count + 1

    ☐ Total ← Total + 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. **Total ← Total + Value**

    'Total ← Total + Value' accumulates the sum; 'Count ← Count + 1' counts occurrences.

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