

Answer key

1 Programming

A

Open task

B

SS compare their answer to A with the Glossary.

2 Steps in programming

A

1c 2a 3d 4e 5b

B

SS check their answers to A.

C

- 1 Understand the problem and plan a solution
- 2 Make a flowchart of the program
- 3 Write instructions in a programming language
- 4 Compile the program (to turn it into machine code)
- 5 Test and debug the program
- 6 Prepare documentation

D

Open task

3 Computer languages

A

Eight: FORTRAN, COBOL, BASIC, Visual BASIC, PASCAL, C, C++, Java

B

- 1 No, computers don't understand human languages because the processor operates only on machine code.
- 2 An assembler is a special program which converts a program written in a low-level language into machine code.
- 3 To make programs easier to write and to overcome the problem of intercommunication between different types of computer.
- 4 PASCAL
- 5 A compiler translates the source code into object code (machine code) in one go. However, an interpreter translates the source code line by line, as the program is running.

- 6 Because they use instructions called markup tags to format and link text files.

C

- | | |
|-----------|------------|
| 1 XML | 4 VoiceXML |
| 2 FORTRAN | 5 COBOL |
| 3 Java | |

4 Word building

program (n or v)
programmers (n)
programming (n or present participle of v)
programmable (adj)

- 1 programming
- 2 program
- 3 programmers
- 4 programmable

compile (v)
compiler (n)
compilation (n)

- 5 compilation
- 6 compiler
- 7 compile

bug (n or v)
debug (v)
debugger (n)
debugging (n or present participle of v)

- 8 bug
- 9 debugger; debug
- 10 debugging

5 Language work: the infinitive

A

- 2 It's expensive to set up a data-processing area.
- 3 It's advisable to test the programs under different conditions.
- 4 It's unusual to write a program that works correctly the first time it's tested.
- 5 It's important to use a good debugger to fix errors.
- 6 It's easy to learn Visual BASIC.

B

1c 2b 3b 4c 5c 6a 7a 8b

C

Open task