

FREE PRACTICE PACK · EDITION 1

# Class 4 Computer Science Olympiad practice

**16 original questions + explained answers**

For students preparing for SOF ICSO.

## Inside this pack

Eight topic-practice questions and an eight-question, 20-minute mini-mock.

## Topics selected for practice

- Hardware and software
- File management
- Word processing
- Internet safety
- Algorithms

## How to use it

Try the practice first. Complete the mini-mock in one sitting. Check the explanations, mark mistakes, and retry them the next day.

This pack covers selected topics. It is original BodhiScore material, independent of SOF, and is not an official paper or a full-length exam. Check the official syllabus for the complete scope.

## Topic practice

Work through these eight questions without a timer. Explain your choice before checking the solutions.

### 1. Hardware and software

Which is system software?

- |                         |                            |
|-------------------------|----------------------------|
| <b>A.</b> Keyboard      | <b>B.</b> Operating system |
| <b>C.</b> Paint drawing | <b>D.</b> Photo file       |
- 

### 2. File management

Why would you create a folder named Science Project?

- |                                        |                                     |
|----------------------------------------|-------------------------------------|
| <b>A.</b> To make the monitor brighter | <b>B.</b> To connect Wi-Fi          |
| <b>C.</b> To change a password         | <b>D.</b> To organise related files |
- 

### 3. Word processing

What is a document header?

- |                                |                                               |
|--------------------------------|-----------------------------------------------|
| <b>A.</b> A web link           | <b>B.</b> Text repeated near the top of pages |
| <b>C.</b> A file deletion tool | <b>D.</b> A keyboard row                      |
-

## Topic practice (continued)

### 4. Internet safety

What does a padlock icon beside a website address commonly suggest?

- A.** The site is always truthful
  - B.** No password is needed
  - C.** It cannot use pictures
  - D.** The connection is encrypted
- 

### 5. Algorithms

Which is the best first step in an algorithm for mailing a letter?

- A.** Wait for a reply
  - B.** Open an email app
  - C.** Read the newspaper
  - D.** Write the address
- 

### 6. Hardware and software

Which item is application software?

- A.** Mouse
  - B.** Operating system
  - C.** Spreadsheet program
  - D.** CPU
-

## Topic practice (continued)

### 7. File management

Which file name is clearest for a report due in March?

- A.** asdf
  - B.** finalfinal2
  - C.** water-cycle-report-march
  - D.** newfile
- 

### 8. Internet safety

A website asks you to install a 'free speed booster' immediately. What is best?

- A.** Type a random password
  - B.** Do not install; ask an adult
  - C.** Install it quickly
  - D.** Share the link everywhere
-

## Timed mini-mock

Set a 20-minute timer for these eight questions. Score 1 point per correct answer; there is no penalty for an incorrect answer. This is BodhiScore's practice scoring.

### 9. Word processing

What does Ctrl+S do in most programs?

- |                                  |                            |
|----------------------------------|----------------------------|
| <b>A.</b> Saves the current file | <b>B.</b> Selects all text |
| <b>C.</b> Starts a slide show    | <b>D.</b> Searches the web |
- 

### 10. Algorithms

Pseudocode: SET score=0; ADD 3; ADD 2. What is score?

- |              |             |
|--------------|-------------|
| <b>A.</b> 0  | <b>B.</b> 3 |
| <b>C.</b> 32 | <b>D.</b> 5 |
- 

### 11. Hardware and software

Which component performs calculations and follows program instructions?

- |                   |                   |
|-------------------|-------------------|
| <b>A.</b> CPU     | <b>B.</b> Monitor |
| <b>C.</b> Speaker | <b>D.</b> Printer |
-

## Timed mini-mock (continued)

### 12. File management

You move a photo into a folder. What happens to the original location?

- A.** The photo is printed
  - B.** The folder becomes a browser
  - C.** The photo is no longer there
  - D.** A second copy is always made
- 

### 13. Internet safety

Which message is most likely phishing?

- A.** A saved family photo
  - B.** A library opening time
  - C.** 'Urgent: verify your bank password now'
  - D.** A teacher's planned homework
- 

### 14. Word processing

Which action changes text from blue to red?

- A.** Choose a font colour
  - B.** Increase zoom
  - C.** Insert a page break
  - D.** Close the file
-

## Timed mini-mock (continued)

### 15. Algorithms

Pseudocode: REPEAT 3 TIMES: clap once. How many claps occur?

- A.** 4
  - B.** 3
  - C.** 1
  - D.** 2
- 

### 16. Algorithms

A robot must collect a book, then put it on a shelf. Which order works?

- A.** Pick up book, walk to shelf, place book
  - B.** Place book, pick it up, walk
  - C.** Walk away, place book, pick it up
  - D.** Switch off, pick up book, print up
-

# Answers and explanations

Check why the answer works, then retry any question you missed.

## 1. B - Operating system

An operating system manages computer hardware and provides services for other programs.

## 2. D - To organise related files

Folders group related files so they can be found and managed more easily.

## 3. B - Text repeated near the top of pages

A header is an area at the top of a document page that can repeat information.

## 4. D - The connection is encrypted

A padlock commonly indicates an encrypted connection, but users should still judge a site carefully.

## 5. D - Write the address

The envelope needs the destination address before it can be posted to the intended person.

## 6. C - Spreadsheet program

A spreadsheet program is application software used to complete a particular user task.

## 7. C - water-cycle-report-march

A descriptive file name helps identify the work and its purpose without opening it.

## Answers and explanations (continued)

### 8. B - Do not install; ask an adult

Unexpected software offers can be unsafe, so do not install them without trusted adult guidance.

### 9. A - Saves the current file

Ctrl+S is the common keyboard shortcut for saving the current document or project.

### 10. D - 5

The score begins at zero, then increases by three and by two, giving five.

### 11. A - CPU

The CPU processes instructions and performs calculations for the computer.

### 12. C - The photo is no longer there

Moving changes the file's location; unlike copying, it does not normally leave another file behind.

### 13. C - 'Urgent: verify your bank password now'

Urgent requests for passwords are a common warning sign of phishing attempts.

### 14. A - Choose a font colour

Font-colour formatting changes the displayed colour of selected characters.

### 15. B - 3

The instruction inside the loop runs once for each of the three repeats.

## Answers and explanations (continued)

### 16. A - Pick up book, walk to shelf, place book

The book must be picked up before it can be carried to the shelf and placed there.

Topic scope checked against SOF syllabus: [SOF ICSO Class 4 syllabus](#)