

FREE PRACTICE PACK · EDITION 1

Class 8 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, 25-minute mini-mock.

Topics selected for practice

- HTML and CSS
- Scratch programming
- MS Access and spreadsheets
- Networks and cyber safety
- Algorithms and operating systems

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. HTML and CSS

Which HTML tag creates a hyperlink?

- A. `<img>`
 - B. `<table>`
 - C. `<body>`
 - D. `<a>`
-

2. HTML and CSS

Which HTML tags create an ordered, numbered list?

- A. `<ol>` with `<li>` items
 - B. `<ul>` with `<p>` items
 - C. `<br>` with `<hr>` items
 - D. `<a>` with `<h1>` items
-

3. HTML and CSS

Which CSS declaration makes paragraph text blue?

- A. `color: blue;`
 - B. `text: blue;`
 - C. `font: blue;`
 - D. `background: paragraph;`
-

4. Scratch programming

In Scratch, which block starts a script when the green flag is clicked?

- A. stop all
 - B. when green flag clicked
 - C. repeat 10
 - D. wait 1 seconds
-

Topic practice (continued)

5. Scratch programming

A Scratch sprite must move 10 steps four times. Which control block should contain the move block?

- A. forever
 - B. stop all
 - C. repeat 4
 - D. if then
-

6. Scratch programming

Which Scratch block lets a program ask “What is your name?” and store the reply?

- A. say [What is your name?]
 - B. broadcast [name]
 - C. change x by 10
 - D. ask [What is your name?] and wait
-

7. Scratch programming

A Scratch script says “Well done!” only when score is greater than 9. Which block is needed?

- A. forever
 - B. wait
 - C. if then
 - D. repeat until
-

Topic practice (continued)

8. MS Access and spreadsheets

In a database table of students, which field is most suitable as a primary key?

A. Class teacher

B. Admission number

C. Favourite colour

D. First name

Timed mini-mock

Set a 25-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. MS Access and spreadsheets

In a database table, one complete set of details about one student is a

- | | |
|-------------------|---------------------|
| A. Formula | B. Worksheet |
| C. Record | D. Field |
-

10. MS Access and spreadsheets

Which Excel formula returns the larger value in C2 and D2?

- | | |
|-------------------------|------------------------|
| A. =MAX(C2,D2) | B. =HIGH(C2:D2) |
| C. =LARGE(C2,D2) | D. =TOP(C2:D2) |
-

11. MS Access and spreadsheets

What does \$A\$1 represent in an Excel formula?

- | | |
|-------------------------------------|--------------------------------------|
| A. A worksheet name | B. An absolute cell reference |
| C. A relative cell reference | D. A text value |
-

Timed mini-mock (continued)

12. Networks and cyber safety

What does DNS do on the internet?

- A.** Encrypts every email
 - B.** Stores spreadsheet charts
 - C.** Creates a password
 - D.** Matches domain names to IP addresses
-

13. Networks and cyber safety

Which action best protects an account after a suspicious login alert?

- A.** Share the password with friends
 - B.** Use the same password on more sites
 - C.** Change the password and enable two-factor authentication
 - D.** Ignore the alert forever
-

14. Algorithms and operating systems

In a flowchart, which symbol normally represents input or output?

- A.** Oval
 - B.** Parallelogram
 - C.** Diamond
 - D.** Rectangle
-

Timed mini-mock (continued)

15. Algorithms and operating systems

Which is an operating system?

A. MS Excel

B. HTML

C. USB cable

D. Windows 11

16. Algorithms and operating systems

A flowchart repeats a group of steps until a condition is met. What programming structure does this represent?

A. Loop

B. Variable

C. Hyperlink

D. Database field

Answers and explanations

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

1. D - `<a>`

The anchor tag, `<a>`, creates a link when it has an href attribute.

2. A - `<ol>` with `<li>` items

`<ol>` creates an ordered list and each entry is placed in an `<li>` tag.

3. A - `color: blue;`

The color property controls the colour of text.

4. B - when green flag clicked

The event block “when green flag clicked” begins the attached script when the green flag is selected.

5. C - repeat 4

The repeat block runs the enclosed move instruction exactly four times.

6. D - ask [What is your name?] and wait

The ask-and-wait block pauses for input and makes the response available as answer.

7. C - if then

An if then block checks a condition and runs its contents only when that condition is true.

Answers and explanations (continued)

8. B - Admission number

An admission number is intended to be unique, so it can identify each record reliably.

9. C - Record

A record is one row containing all the fields for a single item or person.

10. A - =MAX(C2,D2)

MAX returns the greatest value among the numbers supplied.

11. B - An absolute cell reference

Dollar signs lock both the column and row, so \$A\$1 does not change when copied.

12. D - Matches domain names to IP addresses

The Domain Name System translates readable domain names into IP addresses used by networks.

13. C - Change the password and enable two-factor authentication

Changing the password and adding two-factor authentication reduces the chance of unauthorised access.

14. B - Parallelogram

A parallelogram is the standard flowchart symbol for input or output, such as reading or displaying data.

Answers and explanations (continued)

15. D - Windows 11

An operating system manages hardware and provides services for programs; Windows 11 is one.

16. A - Loop

A loop repeats instructions according to a stated condition.

Topic scope checked against SOF syllabus: [SOF ICSO Class 8 syllabus](#)