

FREE PRACTICE PACK · EDITION 1

Class 5 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

- Memory and storage
- Networks
- Spreadsheets
- Cyber 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. Memory and storage

Which unit is larger?

- | | |
|--------------------|--------------------|
| A. Gigabyte | B. Megabyte |
| C. Kilobyte | D. Byte |
-

2. Networks

What is a LAN?

- | | |
|---------------------------------------|------------------------------|
| A. A drawing tool | B. A password manager |
| C. A network in a limited area | D. A type of keyboard |
-

3. Spreadsheets

A spreadsheet cell is named B4. What does 4 represent?

- | | |
|-------------------------|----------------------|
| A. Column letter | B. File size |
| C. Formula count | D. Row number |
-

4. Cyber safety

What is two-factor authentication designed to add?

- | | |
|--------------------------------|--------------------------------------|
| A. Extra advertisements | B. A second proof of identity |
| C. A second screen | D. Two usernames |
-

Topic practice (continued)

5. Algorithms

Which flowchart symbol is commonly used for a decision?

- | | |
|-------------------|----------------------|
| A. Oval | B. Arrow only |
| C. Diamond | D. Rectangle |
-

6. Memory and storage

Why is a backup useful?

- | | |
|---|-------------------------------------|
| A. It provides another copy of important files | B. It makes passwords public |
| C. It deletes folders | D. It slows a network |
-

7. Networks

Which device directs data between a home network and the internet?

- | | |
|-------------------|-------------------|
| A. Webcam | B. Router |
| C. Monitor | D. Scanner |
-

8. Spreadsheets

Which formula adds values in cells A1 through A3?

- | | |
|-----------------------|-------------------------|
| A. =ADD(A1-A3) | B. =TOTAL(A1,A3) |
| C. =A1:A3 | D. =SUM(A1:A3) |
-

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. Cyber safety

Which password is safest?

A. Lake!Mango73

B. school123

C. Riya2000

D. qwerty

10. Algorithms

Pseudocode: $x=4$; IF $x>5$ THEN print A ELSE print B. What prints?

A. Nothing

B. B

C. A

D. 4

11. Spreadsheets

$A1=6$ and $A2=9$. What does $=A1+A2$ return?

A. 3

B. 0

C. 15

D. 69

12. Networks

Which network is most appropriate for devices in one classroom?

A. Internet browser

B. Search engine

C. LAN

D. WAN

Timed mini-mock (continued)

13. Memory and storage

A 2 GB video will not fit on a 1 GB drive. Why?

- | | |
|--|---|
| A. The video has too many colours | B. GB means graphics button |
| C. The monitor is too small | D. The drive has less capacity than the file |
-

14. Cyber safety

Before sharing a class photo online, what should you check?

- | | |
|--|-------------------------------------|
| A. Permission from people shown | B. Whether it has many likes |
| C. Your screen brightness | D. The keyboard colour |
-

15. Algorithms

A flowchart asks “Is it raining?” If Yes, take an umbrella; if No, leave it. Which action follows Yes?

- | | |
|----------------------------------|--------------------------------|
| A. Leave the umbrella | B. Stop before choosing |
| C. Ask the question again | D. Take an umbrella |
-

16. Algorithms

Pseudocode: total=1; REPEAT 3 TIMES: total=total+2. What is total?

- | | |
|-------------|-------------|
| A. 8 | B. 7 |
| C. 3 | D. 6 |
-

Answers and explanations

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

1. A - Gigabyte

A gigabyte contains more data than a megabyte, kilobyte, or single byte.

2. C - A network in a limited area

A local area network connects devices within a small area such as a school or home.

3. D - Row number

In a cell reference, the letter identifies the column and the number identifies the row.

4. B - A second proof of identity

Two-factor authentication requires another verification step in addition to a password.

5. C - Diamond

A diamond represents a question or condition with possible different paths.

6. A - It provides another copy of important files

A backup can help restore work after loss, accidental deletion, or device damage.

7. B - Router

A router forwards network traffic between connected networks, including a home network and the internet.

Answers and explanations (continued)

8. D - =SUM(A1:A3)

SUM with the A1:A3 range adds the values from A1, A2, and A3.

9. A - Lake!Mango73

A unique mixture of unrelated words, numbers, and symbols is much harder to guess.

10. B - B

Four is not greater than five, so the ELSE branch prints B.

11. C - 15

The formula adds the two numeric cell values: six plus nine equals fifteen.

12. C - LAN

A LAN serves a limited local area, making it appropriate for one classroom or school building.

13. D - The drive has less capacity than the file

The file needs two gigabytes of storage, which exceeds the drive's one-gigabyte capacity.

14. A - Permission from people shown

People's images are personal information, so permission and school rules should be respected.

15. D - Take an umbrella

The Yes branch follows the condition and leads to taking an umbrella.

Answers and explanations (continued)

16. B - 7

Starting at one and adding two three times gives one plus six, which is seven.

Topic scope checked against SOF syllabus: [SOF ICSO Class 5 syllabus](#)