

REVISION WORKSHEET -GRADE 7

Pre October Assessment 2026-27

Question1:

A student is creating a flowchart for a program that asks the user for their age, adds 5 to the age, and displays the new value.

- a) Which flowchart symbol should be used to take the user's age as input?
- b) Which flowchart symbol should be used for the calculation $\text{age} = \text{age} + 5$?
- c) Which flowchart symbol should be used to display the new age?
- d) What is the purpose of the arrows in a flowchart?

Question2:

An architect wants a simple program that does the following:

1. asks the user for the length of one side of a square;
2. calculates the perimeter;
3. calculates the area;
4. displays both results.

Draw a flowchart for the problem.

Question3:

A flowchart checks a student's score. IF score ≥ 50 THEN
OUTPUT "Pass"
ELSE
OUTPUT "Try again"

- a) What is the condition being tested?
- b) What will be displayed if **score** = 72?
- c) What will be displayed if **score** = 38?
- d) Explain the purpose of Selection in Flowcharts.

Question4: A school computer system allows a student to enter a laboratory only when:

- their ID is valid AND
- they have permission.

Consider these conditions:

ID valid = True

Permission = False

- a) What is the result of True AND False?
- b) Will the student be allowed to enter? Why or Why not?

Question5: Evaluate each condition and write the final Boolean result (True or False).

- Is $8 > 3$ AND $5 > 10$? Result: _____
- Is $4 > 9$ AND $7 > 2$? Result: _____
- Is $6 > 10$ OR $9 > 4$? Result: _____
- Is $3 > 7$ OR $2 > 5$? Result: _____

▪ Question6: ▪ Answer the following: ▪ a) What type of flowchart symbol represents a decision? ▪ b) What should be written on the two arrows leaving a decision? ▪ c) Explain why a decision needs two possible paths.	▪ Question7: ▪ a) Define pattern recognition ▪ b) What is the symbol for sub-routine which is used to show a pattern in a flowchart? ▪ c) Describe any one benefit pattern recognition in a computer program
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