

REVISION WORKSHEET -GRADE 6

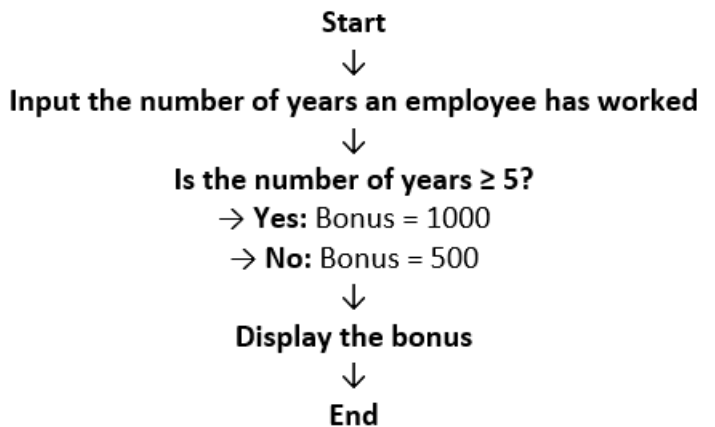
Pre October Assessment 2026-27

Q1. Complete the following statements.

- Computational thinking helps us break a large problem into smaller _____.
- Decomposition, pattern recognition, abstraction and algorithms are the four main steps of _____.
- An _____ is a set of clear, step-by-step instructions used to solve a problem.
- A _____ is a diagram used to visually represent an algorithm.
- The _____ symbol is used to represent a decision in a flowchart.
- A rectangle in a flowchart represents a _____.

Q2. Study the algorithm on the right -> and answer the questions.

- What type of flowchart symbol should be used for the question "Is the number of years ≥ 5 ?"
- What will be displayed if the employee has worked for **7 years**?
- What will be displayed if the employee has worked for **3 years**?
- Explain why the flowchart needs a decision.



Q3. Identify the most suitable programming construct for each situation.

Choose from: **Sequence – Selection – Iteration**

- A robot follows five instructions in a fixed order to make a sandwich.
Answer: _____
- A program checks whether a student's mark is greater than or equal to 50 and displays "Pass" or "Try Again".
Answer: _____
- A program asks a player to enter a password repeatedly until the correct password is entered.
Answer: _____
- Explain why **iteration** is suitable for situation (c).

Q4. Study the Scratch-style program on the right->

- What is the starting value of variable **Score**?
- What is the starting value of variable **Lives**?
- What will happen to **Score** if the player enters **7**?
- What will happen to **Lives** if the player enters **5**?
- If the player starts with **3** lives and gives **two** wrong answers, how many lives will remain?

When Green Flag clicked
Set Score to 0
Set Lives to 3
Ask "What is 3 + 4?" and wait
If answer = 7
 → Change Score by 1
Else
 → Change Lives by -1

Q5. Classify each item as Integer, Character, or String.

- 25 → _____
- A → _____
- "Hello" → _____
- 7 → _____
- "Grade 6 Computing" → _____
- Explain why "25" and 25 can be treated as different data types.

Q6. Study the expressions and answer the questions. Write A for Arithmetic or R for Relational.

- $8 + 4$ → _____
- $15 > 9$ → _____
- $20 - 7$ → _____
- $6 == 6$ → _____
- 5×3 → _____
- $10 < 4$ → _____

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