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REVISION WORKSHEET -GRADE 6

Pre October Assessment 2026-27

Q1. Complete the following statements.

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

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

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

Start
↓
Input the number of years an employee has worked
↓
Is the number of years ≥ 5?
→ **Yes:** Bonus = 1000
→ **No:** Bonus = 500
↓
Display the bonus
↓
End

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

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

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

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

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

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

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

a. 25 → _____
b. A → _____
c. "Hello" → _____
d. 7 → _____
e. "Grade 6 Computing" → _____
f. 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.

a. 8 + 4 → _____
b. 15 > 9 → _____
c. 20 - 7 → _____
d. 6 == 6 → _____
e. 5 × 3 → _____
f. 10 < 4 → _____
