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**Flowchart (Unit One)**

**Study Sheet #1**

**Name: Answer Key Grade /Section:….**

**Date: …………………. 2nd Semester 2021/ 2021**

**We use symbols in flow chart to show what action to take**

|  |  |  |
| --- | --- | --- |
| **Symbol** | **Name** | **Action** |
|  | **Start / Stop** | **This shape shows the beginning and end of a sequence.**  **A sequence is the order in which one task follows another.** |
|  | **process** | **This shape shows a command.**  **A command is a specific instruction.** |
|  | **Decision** | **This shape shows “Yes” or”No” decision.** |
|  | **Input /Output** | **This shape shows where data are being received or sent from a computer program.** |
|  | **Arrows** | **These arrows show the way we move through the sequence from symbol to symbol.**  **The direction of flow .** |

1. **Draw a flowchart to add and print two numbers**

**Formula 🡪 Sum=A+B**

Input A,B

Sum=A+B

Print Sum

1. **Draw a flowchart to calculate and print the Area of a rectangle.**

**Formula 🡪 A=L\*W**

A: Area

L: Length

W: Width

Input L, W

A=L\*W

Print A

1. **Draw a flowchart to calculate and print the area of a triangle.**

**Formula 🡪 A=1/2\*B\*H**

A: Area

B: Base

H: Height

Input B, H

A=1/2\*B\*H

Print A

1. **Draw a flowchart to calculate and print the average of three numbers.**

**Formula 🡪 Average=(A+B+C)/3**

A: Number1

B: Number2

C: Number3

Input A, B, C

Average=(A+B+C)/3

Print Average

1. **Draw a flowchart to print “Pass” if the grade is greater than or equals to 50 and print “Fail” if not.**

No

Yes

Print “Fail”

Print “Pass”

If grade>=50

Input grade

1. **Draw a flowchart to print “Adult ” if the age is greater than or equals 18 and print “young” if not.**

No

Yes

Print “Young”

Print “Adult”

If age>=18

Input age

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