* Given the following values, compute function point when all complexity adjustment factor (CAF) and weighting factors are average.

User Input = 50

User Output = 40

User Inquiries = 35

User Files = 6

External Interface = 4

Solution:

**Step-1:**

As complexity adjustment factor is average (given in question), hence,

scale = 3.

F = 14 \* 3 = 42

**Step-2:**

CAF = 0.65 + ( 0.01 \* 42 ) = 1.07

**Step-3:**

As weighting factors are also average (given in question) hence we will multiply each individual function point to corresponding values in TABLE.

UFP = (50\*4) + (40\*5) + (35\*4) + (6\*10) + (4\*7) = 628

**Step-4:**

Function Point = 628 \* 1.07 = 671.96

This is the required answer.

* **Counting Function Point (FP):**
* **Step-1:**

F = 14 \* scale

Scale varies from 0 to 5 according to character of Complexity Adjustment Factor (CAF). Below table shows scale:

0 - No Influence

1 - Incidental

2 - Moderate

3 - Average

4 - Significant

5 - Essential

* **Step-2:** Calculate Complexity Adjustment Factor (CAF).

CAF = 0.65 + ( 0.01 \* F )

* **Step-3:** Calculate Unadjusted Function Point (UFP).

TABLE (Required)

| **FUNCTION UNITS** | **LOW** | **AVG** | **HIGH** |
| --- | --- | --- | --- |
| EI | 3 | 4 | 6 |
| EO | 4 | 5 | 7 |
| EQ | 3 | 4 | 6 |
| ILF | 7 | 10 | 15 |
| EIF | 5 | 7 | 10 |

Multiply each individual function point to corresponding values in TABLE.

* **Step-4:** Calculate Function Point.

FP = UFP \* CAF

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Measurement parameter** | **Count** | **Simple** | **Average** | **Complex** | **Count Total** |
| Inputs | **50** | 3 | 4 | 6 | 50\*4 = 200 |
| Outputs | **40** | 4 | 5 | 7 | 40\*5=200 |
| inquiry | **35** | 3 | 4 | 6 | 140 |
| files | **6** | 7 | 10 | 15 | 60 |
| External interfaces | **4** | 5 | 7 | 10 | 28 |
| Total |  |  |  |  | = 628 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

+0.01x

FP = counttotal x CAF

FP = 628 \* [0.65 + 0.01 x (14x3)]

FP = 628 x 1.07 = 672