

3. Firewall Project XT. Using the "complexity weighting" scheme shown in Table 5.2 and the function point complexity weighted table shown below, estimate the total function point count. Assume historical data suggest five function points equal one person a month and six people can work on the project.

Complexity Weight Table		
Number of <u>inputs</u>	10	Rated complexity <u>low</u>
Number of <u>outputs</u>	20	Rated complexity <u>average</u>
Number of <u>inquires</u>	10	Rated complexity <u>average</u>
Number of <u>files</u>	30	Rated complexity <u>high</u>
Number of <u>interfaces</u>	50	Rated complexity <u>high</u>

Element	Complexity Weighting			Total
	Low	Average	High	
Number of <u>inputs</u>	× 2	× 3	× 4	=
Number of <u>outputs</u>	× 3	× 6	× 9	=
Number of <u>inquiries</u>	× 2	× 4	× 6	=
Number of <u>files</u>	× 5	× 8	× 12	=
Number of <u>interfaces</u>	× 5	× 10	× 15	=

- What is the estimated project duration?
- If 20 people are available for the project, what is the estimated project duration?
- If the project must be completed in six months, how many people will be needed for the project?

* no. of function points =

$$(10)(2) + (20)(6) + (10)(4) + (30)(12) + (50)(15) = 1290 \text{ function points}$$

A.) $1290 \text{ fp} \cdot \frac{1 \text{ person} \cdot \text{month}}{5 \text{ fp}} \cdot \frac{1}{6 \text{ people}} = 43 \text{ month}$

B.) $1290 \text{ fp} \cdot \frac{1 \text{ person} \cdot \text{month}}{5 \text{ fp}} \cdot \frac{1}{20 \text{ people}} = 12.9 \text{ month}$

C.) $1290 \text{ fp} \cdot \frac{1 \text{ person} \cdot \text{month}}{5 \text{ fp}} \cdot \frac{1}{x} = 6 \text{ months}$

$x = 43 \text{ month}$