


## Architect 's Fee

- ❖ An architect's fee is calculated as a percentage of the cost of a building. The fee is made up as follows:
  - ◆ 8% of the first \$5000.00
  - ◆ 3% of the remainder if the remainder is less then or equal to \$80,000
  - ◆ 2.5% of the remainder if the remainder is more then \$80,000

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## 1. Analysis Phase

- ❖ Investigate and analyze the nature of problem
  - ◆ Programmer meets with users to discuss and analyze the problem
  - ◆ What are the dependent inputs?
  - ◆ What are the desired outputs?
  - ◆ What processing will be required?
  - ◆ What are event triggers?
  - ◆ *Means-Ends Analysis*



Inputs	Processing	Outputs
dCost	Determine the cost of the fee based on the fee schedule below: If(dCost <= 5000) dFee = 0.08 * dCost If(5000 < dCost < 80000) dFee = 400 + 0.03 * (dCost - 5000) If(dCost >= 80000) dFee = 400 + 0.025 * (dCost - 5000)	dFee

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## 1. Analysis Phase

- ❖ Write Program Specifications Report
  - ◆ Write the program requirements
  - ◆ Write the program specifications description
    - ◆ Describe the goals of the program
    - ◆ Describe appearance of input and output

An architect's fee is calculated as a percentage of the cost of the Building. The fee is dependent on the cost of the building and based on the following schedule. 8% of the first \$5000.00 and either, 3% of the remainder if the remainder is less then or equal to \$80,000, or 2.5% of the remainder if the remainder is more then \$80,000.  
 Any positive real number can be entered using dollars and cents.

Enter the cost of the building  
 > \$5000.00  
 The Architect Fee = \$400.00

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## 1. Analysis Phase

- ❖ Determine Known Test Data
  - ◆ Get from a reliable known source
  - ◆ Use a calculator or spreadsheet

	A	B	C
1	Building Cost	Architect Fee	
2	2000	160	=A2*0.08
3	5000	400	=A3*0.08
4	10000	550	=400+0.03*(A4-5000)
5	50000	1750	=400+0.03*(A5-5000)
6	80000	2650	=400+0.03*(A6-5000)
7	100000	2775	=400+0.025*(A7-5000)
8	200000	5275	=400+0.025*(A8-5000)

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