

Problem 1

Unadjusted Function Point Count

External Inputs

Input	Complexity	Weight
Destination	Medium	4
Cabin	Low	3
Number of Tickets	Low	3
Cash	High	6
Total		16

External Outputs

Output	Complexity	Weight
Price	Low	4
Train	Medium	5
Seat Number	Low	3
Total		12

External Inquiries

Inquiry	Complexity	Weight
Train to destination?	High	6
Seats Available in Cabin?	Medium	4
Payment sufficient?	Medium	4
Payment slug?	Low	3
Denomination at Capacity?	Low	3
Total		20

External Files

None

Internal Files

Inquiry	Complexity	Weight
Train Schedules	High	10
Train Seats	Medium	7
Currency in Machine	Low	5
Total		22

Total UFC = 70**Technical Complexity Factor**

Functionality	Effect on Complexity
Reliable Backup and Recovery	1
Data Communications	4
Distributed Functions	0
Performance	2
Heavily Used Configuration	2
Online Data Entry	3
Operational Ease	3
Online Update	5
Complex Interface	0
Complex Processing	0
Reusability	4
Installation Ease	3
Multiple Sites	5
Facilitate Change	2
Total	34

Total Technical Complexity Factor = $0.65 + (0.01 * 34)$

Total Technical Complexity Factor = 0.99

Function Points

Total Function Points = $UFC * TCF = 70 * 0.99$

Total Function Points = 69.3