Copyright 2018 Carnegie Mellon University. All rights reserved.  
  
This material is based upon work funded and supported by the Department of Defense under Contract No. FA8721-05-C-0003 with Carnegie Mellon University for the operation of the Software Engineering Institute, a federally funded research and development center.  
  
Any opinions, findings and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the United States Department of Defense.  
  
NO WARRANTY. THIS MATERIAL IS FURNISHED ON AN “AS-IS” BASIS WITH NO WARRANTIES OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTY OF FITNESS FOR PURPOSE OR MERCHANTABILITY, ANY WARRANTY WITH RESPECT TO FREEDOM FROM PATENT, TRADEMARK, OR COPYRIGHT INFRINGEMENT, OR THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.  
  
[Distribution Statement A] This material has been approved for public release and unlimited distribution. The United States Government has Unlimited Rights in this material as defined by DFARS 252.227-7013.

The text and illustrations in this material are licensed by Carnegie Mellon University under a [Creative Commons Attribution 4.0 International License](https://creativecommons.org/licenses/by/4.0/).

The Creative Commons license does not extend to logos, trade marks, or service marks of Carnegie Mellon University.



Constructing a Relative Size Table

Exercise

TSP Team Member Training  
Software Engineering Institute

© 2013 Carnegie Mellon University

Constructing a Relative Size Table

|  |  |
| --- | --- |
| **Objective** | Given historical data listing the effort required to develop various sizes of requirements documents   * construct a relative size table for future estimation of effort using the linear method * construct a relative size table for future estimation of effort using the statistical method * develop an estimate of productivity for future planning (for each set of data provided) |

|  |  |
| --- | --- |
| **Instructions** | **Part I: Linear Method**  Using the data presented in Table 1:   1. Construct a relative size table by calculating the values and entering the results in Table 2. 2. Calculate a productivity rate for future estimating. Enter the value at the bottom of page 2.   **Part II: Statistical Method**  Using the data presented in Table 3:   1. Construct a relative size table by calculating the values and entering the results in Table 4 2. Calculate a productivity rate for future estimating. Enter the value at the bottom of page 3. |

|  |  |
| --- | --- |
| **Exercise duration** | Take 15 minutes to complete the exercise. |

|  |  |
| --- | --- |
| **Need help?** | If you need help,   * refer to the slides in the module that were presented before the exercise * call upon your instructor to answer any questions you have |

Part I. Linear Method: Constructing a Relative Size Table

Table 1. Historical data: # Pages vs. # Hours.

|  |  |  |  |
| --- | --- | --- | --- |
| **Doc #** | | **# Pages** | **# Hours** |
| 1 | | 3 | 7 |
| 2 | | 5 | 13 |
| 3 | | 8 | 16 |
| 4 | | 9 | 17 |
| 5 | | 11 | 22 |
| 6 | | 14 | 32 |
| 7 | | 15 | 33 |
| 8 | | 17 | 33 |
| 9 | | 18 | 42 |
| 10 | | 23 | 44 |
| 11 | | 24 | 42 |
| 12 | | 26 | 51 |
| Total | *173* | *352* |
|  | *14.4* | *29.3* |

Table 2. Relative size table template.

|  |  |  |
| --- | --- | --- |
| **Small #** | **Medium** | **Large** |
|  |  |  |

|  |  |
| --- | --- |
| **Productivity rate =** |  |

Part II. Statistical Method: Constructing a Relative Size Table

Table 3. Historical data: # Pages vs. # Hours.

|  |  |  |  |
| --- | --- | --- | --- |
| **Doc #** | | **# Pages** | **# Hours** |
| 1 | | 3 | 7 |
| 2 | | 4 | 7 |
| 3 | | 5 | 13 |
| 4 | | 8 | 16 |
| 5 | | 9 | 17 |
| 6 | | 9 | 21 |
| 7 | | 10 | 22 |
| 8 | | 11 | 22 |
| 9 | | 13 | 27 |
| 10 | | 13 | 24 |
| 11 | | 13 | 28 |
| 12 | | 14 | 32 |
| 13 | | 14 | 31 |
| 14 | | 15 | 33 |
| 15 | | 17 | 33 |
| 16 | | 18 | 42 |
| 17 | | 21 | 41 |
| 18 | | 23 | 44 |
| 19 | | 24 | 42 |
| 20 | | 26 | 51 |
| Total | *270* | *553* |
|  | *13.5* | *27.7* |
|  | *6.5* | *12.4* |

Table 4. Relative size table template.

|  |  |  |
| --- | --- | --- |
| **Small #** | **Medium** | **Large** |
|  |  |  |

|  |  |
| --- | --- |
| **Productivity rate =** |  |