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UNIVERSITY OF
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# **SWE20001 Managing Software Projects**

Lecture 8b

**Estimating by Comparison** 



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# **Estimating by Size Comparison**

- Among the many items to be estimated, choose one\* to perform the estimation
  - □ Item A, Item B, **Item C**, Item D, Item E, Item F
- Estimate the effort for this particular item
  - $\square$  Item C = 15 hours
- Compare the size of other items with this chosen item
  - $\square A \rightarrow C$  [double the effort]; B  $\rightarrow C$  [half the effort]; ...
- Calculate the efforts of other items
  - $\square$  A = 30 hours, B = 7.5 hours, **C = 15 hours**, ...

Note: Items A, B, C, D, E, and F do not need to be similar

## First Item? What to choose?



- Choose anyone [probably a bad choice]
- Choose one that you feel **comfortable** to perform the estimate
- Choose one that you know best
  - ☐ You know "exactly" what to do and how long does it take to do it
- Choose one that you are most familiar with
- Choose one that you have done in previous sprint
  - ☐ You have an accurate/actual effort
- Choose one that you have done in previous projects

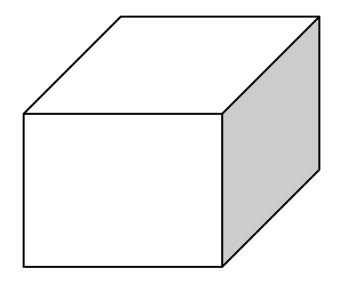
**.**..

# **Example – Paint Your Bedroom – Sizing**



## Wall

- 3m (l) x 3m (w) x 2.3m (h)
- Each Wall = 6.9 sq. m.
- Each Wall 1 hour per coat



## Ceiling

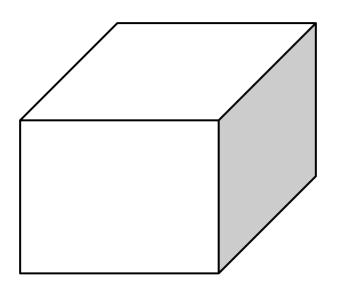
- Same room
- Ceiling = 9 sq. m
- Ceiling approx. 1.3 hours per coat

# **Example – Paint Your Bedroom – Sizing**



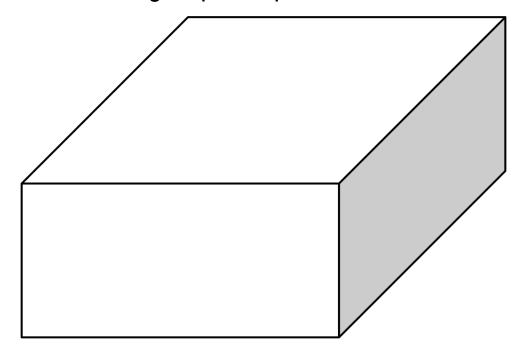
### **Previous Bedroom**

- 3m (l) x 3m (w) x 2.3m (h)
- Wall 1 hour per coat
- Ceiling 1.5 hours per coat



#### **Current "Bedroom"**

- 6 m (l) x 6 m (w) x 2.3 (h)
- Walls double the effort
- Ceiling quadruple the effort



# Example: Peer Review System – Sizing



- The chosen one: Allow a student to submit a peer review assessment about one team member 20 hours
- Allow a convenor to generate the performance report of a student based on the peer review assessments [double the effort]

□ 40 hours

Allow a convenor to configure the peer review form used in their units [1.5 the effort]

□ 30 hours

■ ...

## Size Comparison – Issue



■ Difficult to compare unrelated / different items