

Head first "long exercise" near "time to make an evaluation"

Priorities are: 10, 20, 30, 40, 50



• Calculating person-days per iteration

- How much potential work can be done in an iteration

# of developers \* days in the iteration \* velocity

Say we have:

3 developers

20 day iteration length

• 7 velocity

$3 * 20 * .7 = 42$  person-days of potential work per iteration.

- This means that the sum of all user story estimates must be  $\leq 42$

Planning a milestone \* estimates in ideal days

Story # 10 estimate: 15 priority: 10
--------------------------------------------

Story # 4 estimate: 12 priority: 10
-------------------------------------------

Story # 5 estimate: 13 priority: 10
-------------------------------------------

Story # 2 estimate: 15 priority: 10
-------------------------------------------

Story # 9 estimate: 13 priority: 20
-------------------------------------------

Story # 11 estimate: 12 priority: 20
--------------------------------------------

Story # 1  
estimate: 12  
priority: 30

Story # 8  
estimate: 13  
priority: 30

Story # 3  
estimate: 14  
priority: 40

Story # 7  
estimate: 15  
priority: 50

Story # 6  
estimate: 14  
priority: 50

Story # 12  
estimate: 15  
priority: 50

Assume we are allowed 3 iterations  
(Note:  $42 * 3 = 126$  total person-days of work)

### Planning Steps:

- Start with highest priority items that can fit in the iteration (estimate sum  $\leq 42$  in this case)
- If there is still room ( $< 42$ ) look for the next lowest priority user story that may fit. Repeat until the iteration is full ( $= 42$ ) or no other user stories will fit ( $> 42$ ).

### Iteration # 1

2, 10, 4 = 42 person-days

### Leftovers

7, 6, 12 = 44 person-days

### Iteration # 2

5, 9, 11 = 38 person-days

What if...

Story # 13  
estimate: 4  
priority: 40

### Iteration # 3

1, 8, 3 = 39 person-days