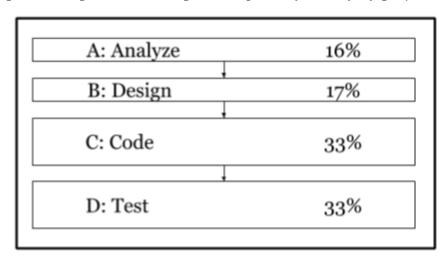
Model 1 The Waterfall Model

The following diagram shows the typical percentage of **total cost & effort** for each stage of software development. In practice, these percentages vary widely by project.



Questions (10 min)

Start time: _____

- 1. Based on the Waterfall Model:
 - a) How many stages are there?
 - b) Which stage is 1st? A: Analyze
 - c) Which stage(s) must be finished before **coding** starts? A: Analyze, B: Design
- 2. Based on the Waterfall Model:
 - a) What % of total effort is in the **last stage**? 33%
 - b) What % of total effort is in the **first two stages**? 33%
 - c) When the project is <u>25%</u> completed, what % of **analysis** is done? 100%
 - d) When the project is $\underline{25\%}$ completed, what % of **coding** is done? 0%
 - e) When the project is <u>50%</u> completed, what % of **coding** is done? About 50%
 - f) When the project is 50% completed, what % of **testing** is done? 0%

3.	It	is important to find and fix errors in software.
	a)	If coding errors are found during C : Code ,
	ŕ	in which stage should they be fixed? C: Code
	b)	If coding errors are found during D : Test ,
	,	in which stage should they be fixed? D: Test
	c)	If analysis errors are found during B: Design ,
	C)	in which stage should they be fixed? B: Design
		in which stage should they be incur
	d)	If analysis errors are found during D: Test,
		in which stage should they be fixed? D: Test
	e)	Which stage focuses most on finding errors? D: Test
	f)	Are major errors in analysis and design more likely
	,	when the project is similar to past projects, or different ? different
4. Later stages often take more time, effort, and money than expected. Explain why based on your answers to the previous questions.		
I	Late	er stages must fix errors from earlier stages, and many errors are found late in the projecting the Test stage.