

# Test Report



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# Agenda

- **Duration:** *2 Hours*
- **Audience:** *Testers*
- **Content:**
  1. Test Report concepts
  2. Test Report process
  3. Test Report template

## After the course, student will:

- Understanding what is Test Report, Defect Report
- Understanding the way to create test report
- Able to analysis about quality & progress based on data collection



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# Concepts

# Test Report Concepts

## Test Case Execution Status

<b>Passed</b>	Actual result is meet requirement (expected result)
<b>Failed</b>	Actual result isn't meet requirement (expected result)
<b>Blocked</b>	Can not executed because pre-condition was failed
<b>Skipped</b>	Not applicable, Not Available, out of scope testing
<b>Not Yet Tested</b>	Has not executed yet

**Test Coverage:** *The degree, expressed as a percentage, to which a specified coverage item has been exercised*

$$\text{Test Coverage} = \frac{\text{No of Executed Test Case}}{\text{Total Test Case}} \times 100\%$$

**Test Success Coverage:** *The degree, expressed as a percentage of success, to which a specified coverage item has been exercised*

$$\text{Test Success Coverage} = \frac{\text{No of Passed Test Case}}{\text{No of Executed Test Case}} \times 100\%$$

# Defect Report Concepts

Defect Type	Description
Business logic	
Security – Access control	
Feature missing	
Functionality (Other)	
Performance	Slowly, not response as expected time.
Requirement misunderstand	Team misunderstand requirement from customer specs
Data – Database integrity	
User interface	Layout of application different with screen design like image, color
Coding logic	
Document	

# Defect Report Concepts

Defect Severity	Weight	Description
Fatal	10	Critical defect making the system crash, cannot recover data
Serious	5	Defect making the major function cannot work or work incorrectly. E.g. User can see/do the activity without his permission.
Medium	3	Defect making the minor function cannot work or work incorrectly. E.g. System returns incorrectly with invalid data, boundary value, performance slowly.
Cosmetic	1	Defect of interface, no impact to functionality. E.g. Layout of form not good, wrong with Tab order, default focus, short key...



# Defect Report Concepts

Defect Priority	Description
Immediately	Defect should be fixed right away or within 01 day after logging
High	Defect should be considered fixing within 02 - 04 days after logging
Normal	Defect should be considered fixing within 05 - 08 days after logging
Low	Defect can be delayed (to be fixed later when appropriate)

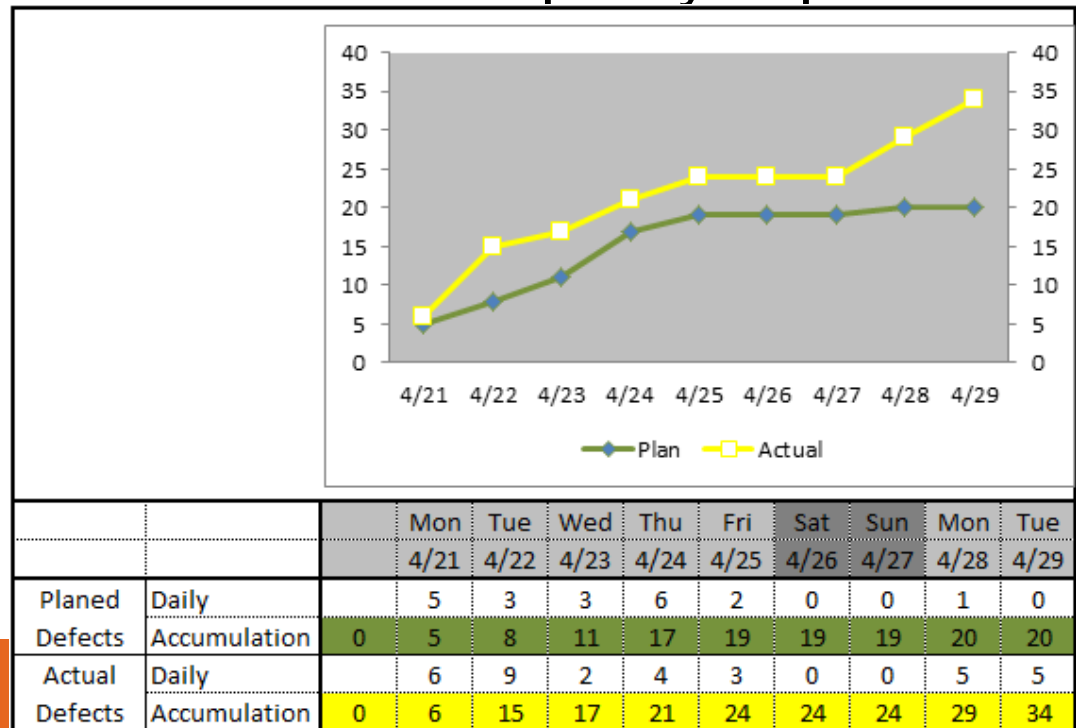
**Leakage:** *measure quality of the product and service after delivery for acceptance test (QC Activity = Acceptance test)*

**Defect Rate:** *metric to measures quality of overall project's products.*

$$\text{Defect Rate} = \frac{\text{Total No of weighted Defects of a product}}{\text{Product size}}$$

## Defect Trend:

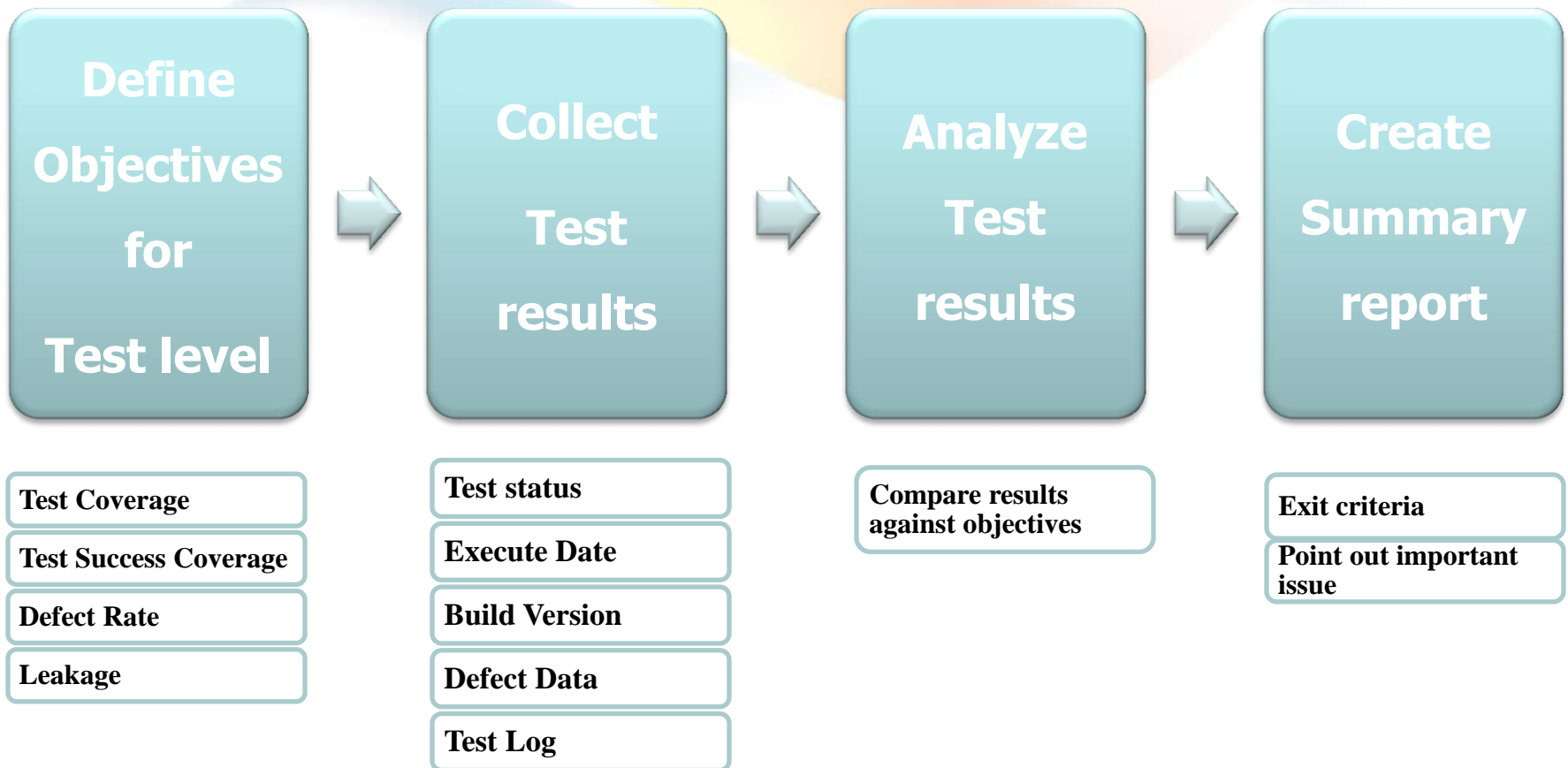
- Give an overall picture of product quality
- Predict defects in the near future (next days)
- Identify high-risk areas to focus for quality improvement





# Process

# Test Report Process



# When to create the report?

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- End of testing level: UT, IT, ST, UAT
- Daily, Weekly, or Milestones
- Critical bug was found

# Questions for creating report

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- How can testers present that information in an easy-to-understand format?
- How can I present the information so that it is believable?
- What is important point need to take action?

- Send report to review before baseline a report for team.
- No focus to personality
- As a service you provide







# Templates

# Test Result Report Template

## TEST REPORT

<b>Project name</b>	<Project name>	<b>Reviewer</b>	<Reviwer>
<b>Creator</b>	<Creator>	<b>Approver</b>	<Approver>
<b>Note</b>			

Test Coverage: **46%**  
Successful Test Coverage: **33%**

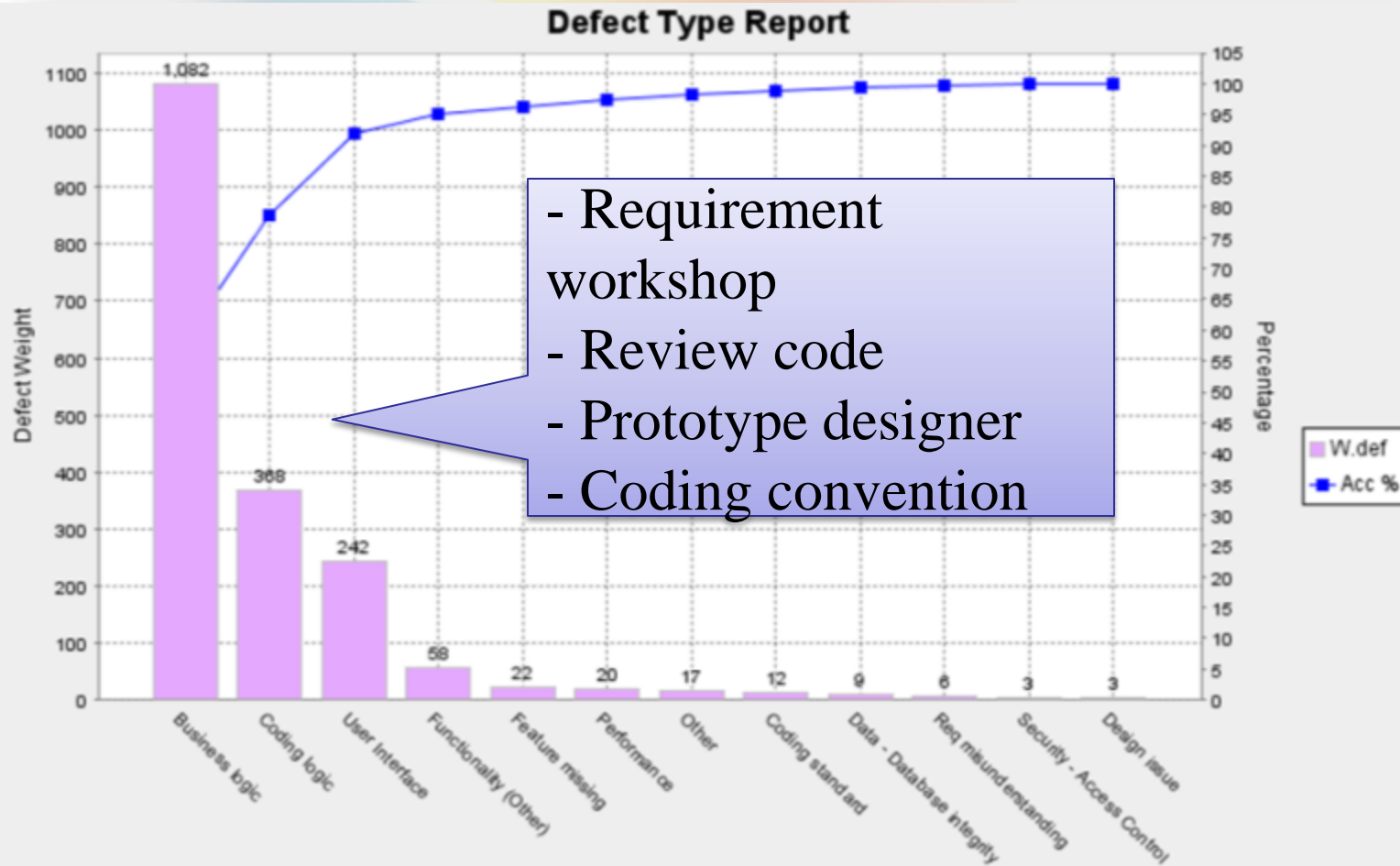
Date: <yyyy/mm/dd>

No	Items	Tested	Passed	Failed	Blocked	Skipped	Not Yet Tested	Total	Tested Coverage
1	Function 1	23	15	5	3	7	18	48	48%
2	Function 2	26	20	4	2	10	22	58	45%
3									
4									
5									
Total		49	35	9	5	17	40	106	

# Defect Type Report

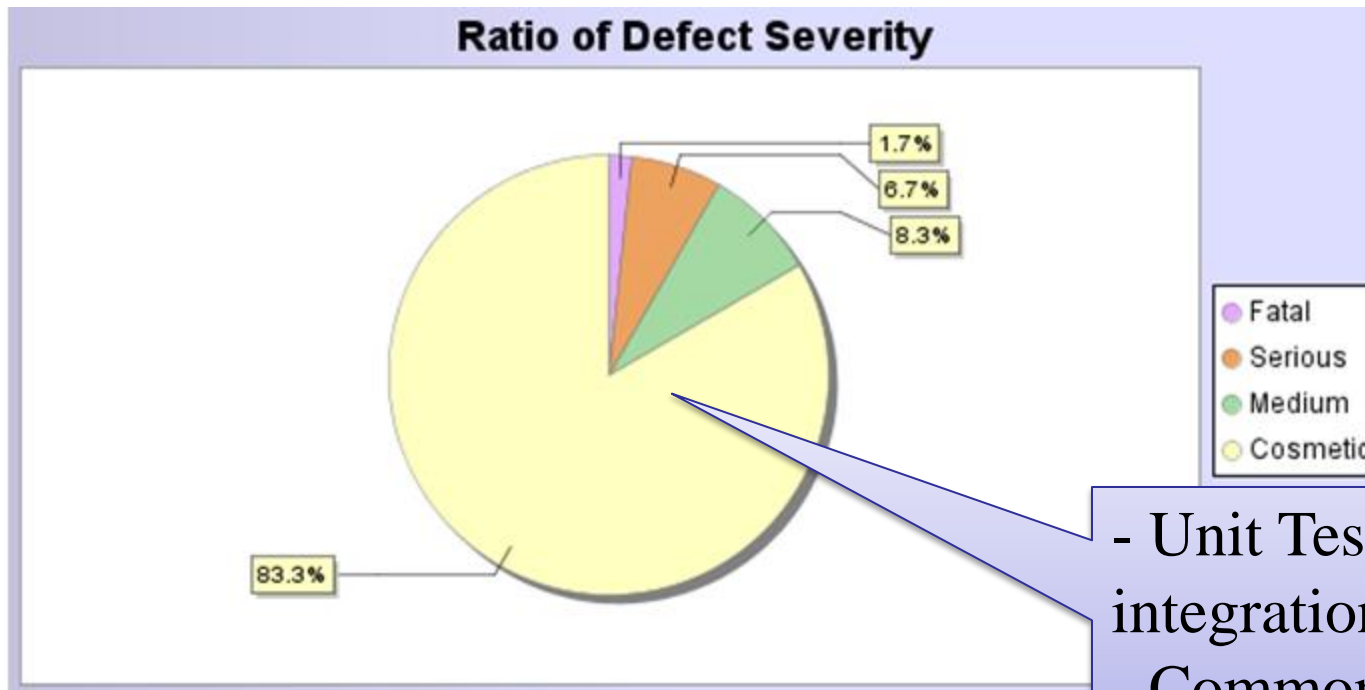
**Purpose:** defect high-defect types

Defect Type
Business logic
Coding logic
Coding standard
Data - Database integ
Design issue
Feature missing
Functionality (Other)
Other
Performance
Req misunderstanding
Security - Access Cont
User Interface
<b>Total</b>



# Defect General/Severity Report

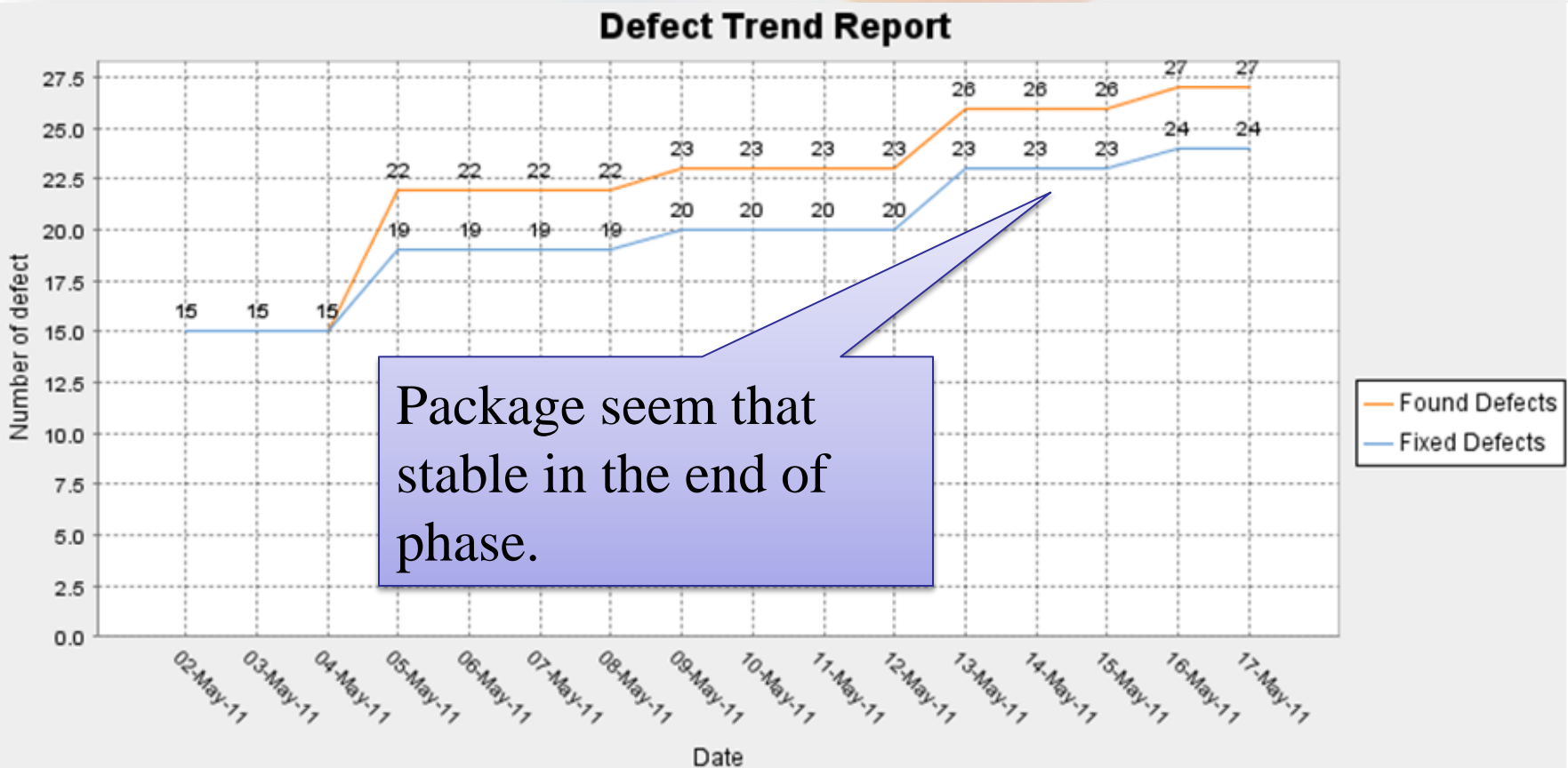
**Purpose:** detect defects relating to severity cause to system hangs or functions work incorrectly



- Unit Test before integration
- Common defects relating interface

# Defect Trend Report

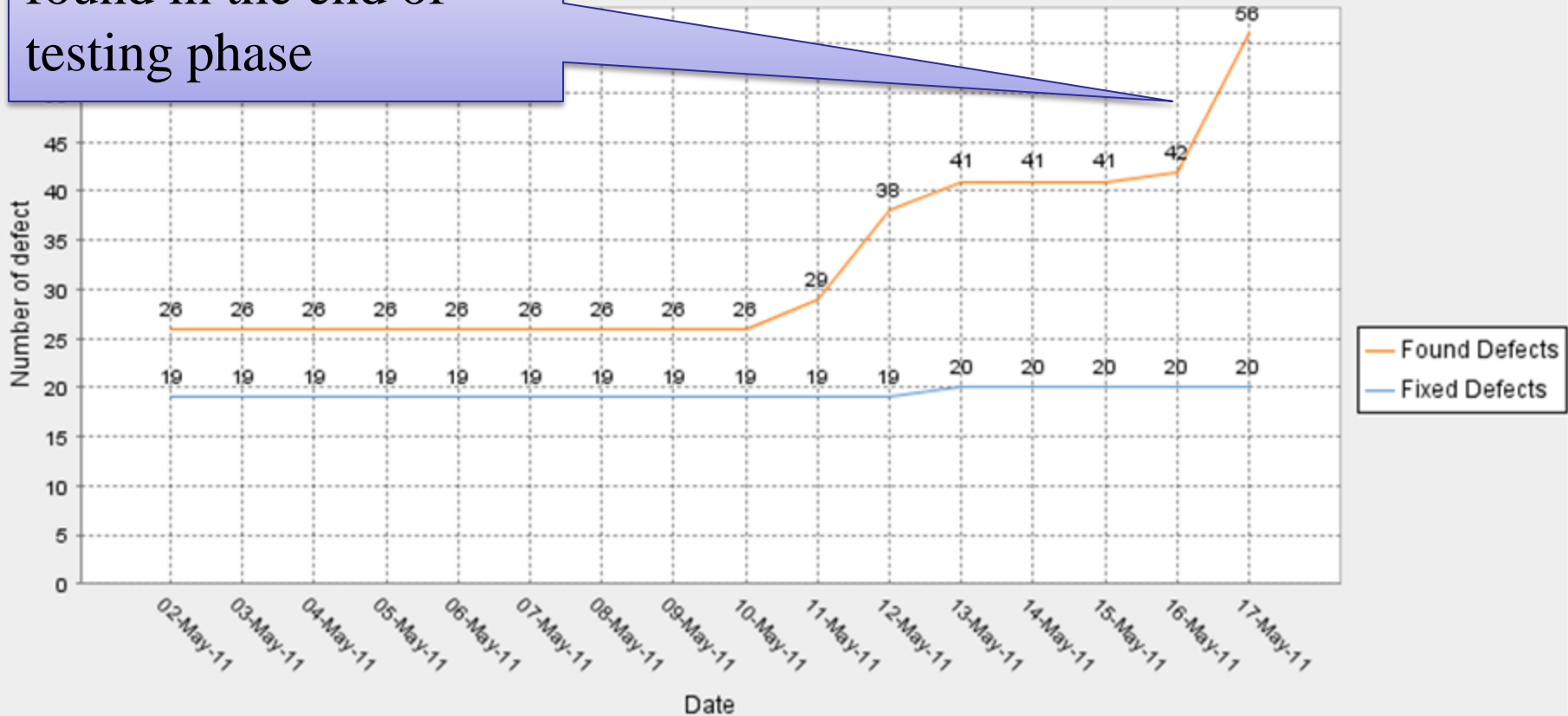
**Purpose:** give general picture of the defect trend, predict defects in the near future



# Defect Trend Report

There are many defect found in the end of testing phase

Defect Trend Report



# Defect by Test Case

**Purpose:** List defect found by Test Case

Test case name/ID	Fatal	Serious	Medium	Cosmetic	Total Defect	Total (W.def)
5910-0001				1	1	1
5945-0001			1		1	3
5897-0001				1	1	1
5951				1	1	1
6011				1	1	1
5964				1	1	1
5943-0001				1	1	1
5902-0001				1	1	1
5920-0001				1	1	1
5952				1	1	1
5963				1	1	1
1474240				1	1	1
5946				1	1	1
5965		1			1	5
5898-0001				1	1	1
5944-0001				1	1	1
5905-0001				1	1	1
5917-0001				2	2	2
5962		1		2	3	7
5895-0001				1	1	1
5918-0001				1	1	1
5878-0001				1	1	1
5888-0001				1	1	1
5948				1	1	1
6019			1		1	3
5907-0001				1	1	1
Total		2	2	25	29	41

# Test Summary Report

**Test Summary Report:** a document summarizing testing activities and results. It also contains an evaluation of the corresponding test items against exit criteria (E.g. final metrics, status of passed or failed, resource use, efficiency...)

## Test Summary Structure:

- Summary
- Test Case result report
- Defect Report
- Open point



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# QUIZ