A5

Writing scripts that last

CHAPTER ASSIGNMENT

Name _____ Class _____ No. _____ Date _____

> Write your code in the space, then test it in the Apps Script editor. Mark where it went wrong if it did.

Questions from the Guru Jazzy chapter page, for classroom use.

Practice tasks

1. **Measure it** (Easy). Time 100 `setValue` calls against one `setValues` call with `Date.now()`, and log both.

2. **Validate before you process** (Medium). Write `checkMarks()` that lists every row with no name, a mark that isn't a number, or a mark outside 0–100, and throws one error listing them all.

3 **Refactor** (Challenge). Take your mail merge from I4. Move settings into CONFIG, split it into `readStudents_`, `buildMessage_` and `sendAll`, add the quota check and a try/catch that records failed rows in an "Error" column, and use a lock so two clicks can't send twice.

Chapter quiz

Q1 A normal script run (from the editor, a menu or a trigger) is stopped after...

A	B	C	D
30 seconds	6 minutes	1 hour	Never

Q2 Two students submit a form at the same instant and both get ticket number 42. What fixes it?

A	B	C	D
A faster script	LockService around the read-and-update	Utilities.sleep	A second sheet

Q3 Why release the lock in a finally block?

A	B	C	D
Style	So it is released even if the code in try throws an error	finally is faster	Locks require it

Q4 A job needs 20 minutes. What is the usual pattern?

A	B	C	D
Ask Google for more time	Do part, save the position in Properties, trigger the rest later	Split into 20 projects	Use a custom function

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Q5 What does setting oauthScopes in appsscript.json do?

A	B	C	D
Speeds up the script	Lists the exact permissions the script asks for, so you can ask for less	Shares the script	Turns on V8

Q6 What is clasp?

A	B	C	D
A Google Sheets add-on	A command-line tool to edit projects locally and push them to Google	A JavaScript library	A trigger type

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End of assignment · Check your answers against the chapter at gurujazzy.com/subjects/apps-script/a5-scripts-that-last/