B4

# Reading and writing Sheets

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. **Times table** (Easy). On an empty tab, fill A1:L12 with a 12 × 12 times table. Build the 2D array with two loops, then write it with one `setValues`.

2. **Visit log** (Easy). Each run adds a row with the date and your email to a tab called **Log**. Create the tab and a header row if they don't exist yet.

3. **Top student** (Medium). Find the student with the highest mark and write "Top student" in G1 and their name in H1.

4. **Copy the passes** (Challenge). Copy the header and every row with a mark of 50 or more into a tab called **Passed**. Running it twice must not double the rows.

## Chapter quiz

**Q1** What does sheet.getRange(3, 2) refer to?

| A | B | C | D |
|---|---|---|---|
| C2 | B3 | A row of 3 cells | C3 |

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**Q2** getValues() on A1:C1 returns...

| A | B | C | D |
|---|---|---|---|
| ['a','b','c'] | [['a','b','c']] | [['a'],['b'],['c']] | 'a,b,c' |

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**Q3** setValues fails with "The number of rows in the data does not match the number of rows in the range". What is wrong?

| A | B | C | D |
|---|---|---|---|
| The sheet is protected | The array and the range are different shapes | You used setValue | The values are text |

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**Q4** Which method adds a row after the last row with data?

| A | B | C | D |
|---|---|---|---|
| insertRow | appendRow | addRow | push |

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**Q5** An empty cell read with getValue() gives...

| A | B | C | D |
|---|---|---|---|
| null | undefined | '' (an empty string) | 0 |

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**Q6** Why is reading the whole range once faster than reading cell by cell in a loop?

| A | B | C | D |
|---|---|---|---|
| Loops are slow in JavaScript | Every getValue is a separate call to Google's servers | getValues uses less memory | It isn't faster |

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End of assignment · Check your answers against the chapter at gurujazzy.com/subjects/apps-script/b4-reading-writing-sheets/