B3

Arrays, objects and loops

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. **FizzBuzz** (Easy). Print 1 to 15, but "Fizz" for multiples of 3, "Buzz" for multiples of 5 and "FizzBuzz" for both.

2. **Longest name** (Easy). Given `['Ploy', 'Benjamin', 'Mint', 'Thanawat']`, print the longest name.

3 **Room average** (Medium). From a 2D array of Name, Room, Mark, print the average mark for M.5/3 only. Use filter, map and reduce.

4 **Rows to objects** (Challenge). Turn the 2D array (header + rows) into an array of objects whose keys are the header titles. This trick lets later code say `s.Mark` instead of `row[2]`.

Chapter quiz

Q1 const a = ['x', 'y', 'z']. What is a[1]?

A	B	C	D
'x'	'y'	'z'	undefined

Q2 Which method keeps only the items that pass a test?

A	B	C	D
map	filter	forEach	push

Q3 A sheet range of 3 rows × 2 columns arrives as…

A	B	C	D
An array of 6 values	An array of 3 arrays, each with 2 values	An array of 2 arrays, each with 3 values	An object

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Q4 data = [['Name','Mark'],['Ploy',72]]. How do you get 72?

A	B	C	D
data[2][1]	data[1][1]	data[1][2]	data.Mark

Q5 What does [1, 2, 3].reduce((s, n) ⇒ s + n, 0) return?

A	B	C	D
[1, 2, 3]	6	0	123

Q6 Which loop is the right choice when you need the row number as well as the row?

A	B	C	D
for…of	A for loop with i, or forEach((row, i) ⇒ …)	while (true)	None of them can

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End of assignment · Check your answers against the chapter at gurujazzy.com/subjects/apps-script/b3-arrays-objects-loops/