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Answersheet

Name: Arashad Ahamad No. of questions attempted: 11 Submitted at: 18 Jun, 2025 7:41 PM

Assignment: Map, Filter, Reduce in JavaScript Total no. of questions: 11 Total marks: 39

Result: Not reviewed yet

SI. No.	Question	Actions
1	How can you access the index of each element inside the "forEach" and "map" 1 mark methods in JavaScript? 1. By using the Array.prototype.indexOf() method. 2. By using a global counter variable. 3. By using the second argument of the callback function. 4. By using the Array.prototype.indexOf() method.	Correct answer 1 mark

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	What is the primary purpose of the "filter" method in JavaScript?	Correct answer
	1. To transform each element of an array based on a callback function	1 mark
	2. To reduce an array to a single value based on a callback function	
	3. To create a new array with only elements that pass a certain condition	
	4. To sort the elements of an array in ascending order	
3	How does chaining of array methods work in JavaScript?	Correct answer
	1. It allows you to combine multiple array methods together to perform complex operations	1 mark
	2. It restricts the usage of array methods to only one method per array	
	3. It ensures that array methods cannot be used together	
	4. It enforces a specific order in which array methods can be used	
4	What does the "reduce" method do in JavaScript?	Correct answer
	1. It creates a new array by selecting specific elements from the original array	1 mark
	2. It applies a function against an accumulator and each element in the array to reduce it to a single value	
	3. It removes elements from the array that do not satisfy a given condition	
	4. It sorts the elements of the array in ascending order	







5	Given an array of numbers, create a new array that contains the squares of each number. const numbers = [1, 2, 3, 4, 5]; // Your code here // Expected Output: [1, 4, 9, 16, 25] const numbers8 = [1, 2, 3, 4, 5] const squareNumbers2 = numbers8.map((num) => { return num * num }) console.log(squareNumbers2);	Marks
6	Given an array of numbers, filter out the even numbers and return a new array with only odd numbers. const numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]; // Your code here // Expected Output: [1, 3, 5, 7, 9] const numbers9 = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]; const oddNumber = numbers9.filter((num) => { return num % 2!== 0}) console.log(oddNumber);	Marks
7	Given an array of numbers, find the product of all the elements in the array. 5 marks const numbers = [1, 2, 3, 4, 5]; // Your code here // Expected Output: 120	Marks





	const numbers10 = [1, 2, 3, 4, 5] const multiply2 = numbers10.reduce((acc, num) =>{ return acc * num }, 1) console.log(multiply2);	
8	Given an array of numbers, create a new array that contains the squares of only 5 marks the odd numbers.	Marks
	const numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10];	0
	// Your code here	
	// Expected Output: [1, 9, 25, 49, 81]	
	const numbers11 = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]; const oddNumberSquares = numbers11.filter((num) => { return num % 2 !== 0 }).map(num => num * num) console.log(oddNumberSquares);	
9	Given an array of strings, count the number of times each string appears and return an object with the string as the key and the count as the value.	Marks
	const fruits = ['apple', 'banana', 'apple', 'orange', 'banana', 'apple'];	0
	// Your code here	
	// Expected Output: { apple: 3, banana: 2, orange: 1 }	
	<pre>const fruits3 = ['apple', 'banana', 'apple', 'orange', 'banana', 'apple']; const count = fruits3.reduce((acc, fruit) => { acc[fruit] = (acc[fruit] 0) + 1 return acc }, {}) console.log(count)</pre>	





```
const products = [
                { name: 'Product 1', price: 100 },
                { name: 'Product 2', price: 200 },
                { name: 'Product 3', price: 300 }
               // Your code here
               //Expected Output: 540
               const products = [ { name: 'Product 1', price: 100 }, { name: 'Product 2', price: 200 }, { name:
               'Product 3', price: 300 } ]; const totalCost = products.reduce((acc, product) => { const
               discountedPrice = product.price - (product.price * 10) / 100; return acc + discountedPrice; },
               0); console.log(totalCost);
               Given three arrays, names, ages, and cities, write a program to combine them
11
                                                                                                        5 marks
                                                                                                                     Marks
               into one array of objects where each object contains a name, age, and city
               property.
               const names = ['Alice', 'Bob', 'Charlie'];
               const ages = [25, 30, 35];
               const cities = ['New York', 'Los Angeles', 'Chicago'];
               // Your code here
               // Expected Output: [
               // { name: 'Alice', age: 25, city: 'New York' },
               // { name: 'Bob', age: 30, city: 'Los Angeles' },
```

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// { name: Charlie, age: 35, city: Chicago }

//]

const names = ['Alice', 'Bob', 'Charlie']; const ages = [25, 30, 35]; const cities = ['New York', 'Los Angeles', 'Chicago']; const combined = names.map((name, index) => { return { name: name, age: ages[index], city: cities[index] }; }); console.log(combined);