

1. What is unit testing?

1 / 1 punto

- ☒ Unit testing revolves around the idea of having separate, small pieces of code that are easy to test.
- ☐ Unit testing tries to imitate how a user might interact with your app.
- ☐ Unit testing is testing how parts of your system interact with other parts of our system.



**Correcto**

That's correct! Unit testing is focused on testing small, specific "units" of code.

2. When the following test executes, what will the test result be?

1 / 1 punto

```
1
2     function subtract(a, b) {
3         return a - b;
4     }
5
6     expect(subtract(10, 4)).toBe(6);
7
```

- ☒ Success.
- ☐ Fail.



**Correcto**

That's correct! The function will return 6 and the expectation will succeed.

3. What is End-to-end testing (e2e)?

1 / 1 punto

- ☐ End-to-end testing revolves around the idea of having separate, small pieces of code that are easy to test.
- ☒ End-to-end testing tries to imitate how a user might interact with your application.
- ☐ End-to-end testing is testing how parts of your system interact with other parts of our system.



**Correcto**

That's correct! End-to-end testing mimics how users will interact with your application.

4. What is Code Coverage?

1 / 1 punto

- ☐ A measure of what percentage of your code has failing tests
- ☒ A measure of what percentage of your code is covered by tests.

✓ **Correcto**

That's correct! Code coverage shows what percentage of your code is covered by tests and where more testing may be required.

5. Node.js can be used to build web application backends.

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- ☒ true
- ☐ false

✓ **Correcto**

That's correct! Node.js is a popular JavaScript runtime for building backends.

6. When the following test executes, what will the test result be?

1 / 1 punto

```
1
2     function multiply(a, b) {
3         return a;
4     }
5
6     expect(multiply(2, 2)).toBe(4);
7
```

- ☐ Success.
- ☒ Fail.

✓ **Correcto**

That's correct! The function will fail because it has a bug which returns only the `a` variable. Therefore, `2` is returned from the function which does not match the expectation.

7. Which command is used to install a Node package?

1 / 1 punto

- ☐ package
- ☐ pkg
- ☐ node
- ☒ npm

✓ **Correcto**

That's correct! The Node Package Manager (npm) is used to install packages.

8. Which file lists all your application's required node packages?

1 / 1 punto

- ☐ node.json
- ☐ npm.json
- ☒ package.json
- ☐ pkg.json

✓ **Correcto**

That's correct! package.json will store all the dependencies required for application.

9. A person on your team wants to help with testing. However, they are not a developer and cannot write code. What type of testing is most suited for them?

1 / 1 punto

- ☐ Unit testing
- ☐ Integration testing
- ☒ End-to-end testing

✓ **Correcto**

That's correct! End-to-end tests can be performed in a web browser without writing code. This is because the tests mimic how a user will interact with the application.

10. What is the recommended way to separate the code that you are testing from its related dependencies?

1 / 1 punto

- ☒ Mocking
- ☐ module.exports
- ☐ End-to-end testing



**Correcto**

That's correct! Mocking allows developers to simulate the behaviour of dependent code during tests.