

## Module quiz: Testing

1. What is unit testing?

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- ☒ 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.
- ☒ **Correto**  
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?

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

- ☒ Success.
- ☐ Fail.
- ☒ **Correto**  
That's correct! The function will return 6 and the expectation will succeed.

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

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

4. What is Code Coverage?

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

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

☐ Success.

☒ Fail.

✓ **Correto**

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?

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☐ package

☐ pkg

☐ node

☒ npm

✓ **Correto**

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

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

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☐ node.json

☐ npm.json

☒ package.json

☐ pkg.json

✓ **Correto**

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?

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☐ Unit testing

☐ Integration testing

☒ End-to-end testing

✓ **Correto**

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?

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☒ Mocking

☐ module.exports

☐ End-to-end testing

✓ **Correto**

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