

# Components and Props Quiz

**Due** No due date**Points** 11**Questions** 11**Time Limit** None**Allowed Attempts** 3

## Instructions

 <https://github.com/learn-co-curriculum/phase-2-quiz-components-and-props/issues/new>

It's time to check your knowledge! Use this quiz to create a custom study guide. Note any answers that were marked incorrect, so you can study the relevant material and try this quiz again.

If you don't know the answer to a question, please do not guess. Instead, select "I don't know". It's OK not to know everything and to admit when we're unsure.

[Take the Quiz Again](#)

## Attempt History

	Attempt	Time	Score
LATEST	<a href="#">Attempt 1</a>	7 minutes	8 out of 11

 Answers will be shown after your last attempt

Score for this attempt: **8** out of 11

Submitted May 8 at 1:11pm

This attempt took 7 minutes.

### Question 1

**1 / 1 pts**

I want to render the Card component inside of my Container component. How would I properly export the Card component? Select all that apply.

```
function Card({ title, subtitle }) {  
  return (  
    <div>  
      <h1>{title}</h1>  
      <p>{subtitle}</p>  
    </div>  
  )  
}
```

 **Help**

```
);  
}
```

☒

```
function Card({ title, subtitle }) {  
  return (  
    <div>  
      <h1>{title}</h1>  
      <p>{subtitle}</p>  
    </div>  
  );  
}  
  
export default Card;
```

Correct! We can use the `export default` keywords to export a variable, and import it with `import`.

☒

```
export default function Card({ title, subtitle }) {  
  return (  
    <div>  
      <h1>{title}</h1>  
      <p>{subtitle}</p>  
    </div>  
  );  
}
```

Correct! We can use the `export default` keywords to export a variable or function, and import it with `import`.

☐

```
function Card({ title, subtitle }) {  
  return (  
    <div>  
      <h1>{title}</h1>  
      <p>{subtitle}</p>  
    </div>  
  );  
}  
  
export cardComponent;
```

☐ I don't know.

#### Sources:

- [Organizing Code with Import/Export](#)

## Question 2

1 / 1 pts

I want to render the Card component inside of my Container component. How would I properly import the Card component?

```
// src/Card.js
function Card({ title, subtitle }) {
  return (
    <div>
      <h1>{title}</h1>
      <p>{subtitle}</p>
    </div>
  );
}

export default Card;
```

- ☐ `// src/App.js`  
`import { Card } from './Card';`
- ☐ `// src/App.js`  
`import default Card from './Card'`
- ☒ `// src/App.js`  
`import Card from './Card';`

Correct! When importing a **default export**, we use the **default import** syntax along with a relative path to the file where the export is declared.

- ☐ I don't know.

### Source/s:

- [Organizing Code with Import/Export](#)

 Help

**Question 3****1 / 1 pts**

Which of the following components are valid? Select all that apply.

☐

```
function Card() {  
  <div>  
    <h1>React</h1>  
    <p>Component</p>  
  </div>;  
}
```

☐

```
function card() {  
  return (  
    <div>  
      <h1>React</h1>  
      <p>Component</p>  
    </div>  
  );  
}
```

☒

```
function Card({ title, subtitle }) {  
  return (  
    <div>  
      <h1>{title}</h1>  
      <p>{subtitle}</p>  
    </div>  
  );  
}
```

☒

```
function Card() {  
  return (  
    <div>  
      <h1>React</h1>  
      <p>Component</p>  
    </div>  
  );  
}
```

**Source/s:**

- [React Components Basics](#)
- [Props Destructuring and Default Values](#)

Incorrect

## Question 4

0 / 1 pts

A React component is a function that takes in  and returns .

**Answer 1:****Answer 2:**

Be sure to study the source/s for this question. You'll get it next time.

**Source/s:**

- [React Components Basics](#)

## Question 5

1 / 1 pts

A React function component must start with a capital letter.

☒ True

 **Help**

Correct! React differentiates between a component and a regular DOM element based on capitalization. For example, making an `<article>` component with a lowercase name wouldn't work:

```
function article() {  
  return (  
    <div>  
      <h1>React</h1>  
      <p>Component</p>  
    </div>  
  );  
}  
  
ReactDOM.render(<article />, document.getElementById("root"));
```

Trying to render this component would result in React rendering an `<article>` [HTML element](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/article) [\\_ \(https://developer.mozilla.org/en-US/docs/Web/HTML/Element/article\)](https://developer.mozilla.org/en-US/docs/Web/HTML/Element/article) instead of the `<article>` component.

Using an uppercase name for the function fixes this problem:

```
function Article() {  
  return (  
    <div>  
      <h1>React</h1>  
      <p>Component</p>  
    </div>  
  );  
}  
  
ReactDOM.render(<Article />, document.getElementById("root"));
```

☐ False

#### Source/s:

- [React Components Basics](#)

## Question 6

1 / 1 pts

Given the following code, what would appear in the console?

 Help

```
function Parent() {  
  const header = "Hello";  
  const contents = "World";  
  
  return <Child title={header} body={contents} minutesToRe  
}  
  
function Child(props) {  
  console.log(props);  
  // ... return JSX  
}
```

☒

```
{  
  title: "Hello",  
  body: "World",  
  minutesToRead: 10  
}
```

Correct! The **props** parameter in every component is an object of key/value pairs based on the attributes assigned by the parent component.

☐

I don't know.

☐

```
{  
  header: "Hello",  
  contents: "World",  
  minutesToRead: 10  
}
```

☐

```
{  
  title: "header",  
  body: "contents",  
  minutesToRead: 10  
}
```

#### Source/s:

- [Props Basics](#)

**Question 7****1 / 1 pts**

We use \_\_\_\_\_ to pass data into a component.

Props

**Source/s:**

- [Props Basics](#)

**Question 8****1 / 1 pts**

What is a React component? Select all that apply.

- ☒ A function that takes in props and returns JSX.
- ☒ A reusable function for creating UI elements.
- ☐ I don't know.
- ☐ An HTML file.

**Source/s:**

- [React Components Basics](#)

**Question 9****1 / 1 pts**

When should you use the **key** prop?

 **Help**



- ☐ I don't know.
- ☐ If two components are siblings.
- ☒ When rendering an array of components.

Correct! The `key` prop is a special prop that React uses to help optimize performance when rendering arrays of components.

- ☐ Any time `.map` is used in a component.

**Source/s:**

- [Lists and Keys](#)

Incorrect

## Question 10

0 / 1 pts

Which of the following are true of JSX? Select all that apply.

- ☐ I don't know.
- ☐ JSX is an abstraction of the DOM.
- ☐ JSX and HTML are interchangeable.
- ☒ JSX stands for JavaScript XML.
- ☒ JSX is a valid form of JavaScript syntax.

On its own, JSX isn't valid JavaScript and is not part of the language. JSX must be transpiled into valid JavaScript using a tool like Babel.

 **Help**

Source/s:

- [Writing JSX](#)

Incorrect

## Question 11

0 / 1 pts

The following is a valid React component:

```
function App() {  
  return (  
    <Article />  
    <Comment />  
  );  
}
```

☐ False

☒ Yes

A component can only return one element. We'd need to wrap the returned components in an enclosing tag or a [Fragment](#) (<https://reactjs.org/docs/fragments.html>), like this to make it valid:

```
function App() {  
  return (  
    <div>  
      <Article />  
      <Comment />  
    </div>  
  );  
}
```

Source/s:

- [Writing JSX](#)

 Help

Quiz Score: **8** out of 11