

## Quiz 1- Components, Styles, Layouts

1. What's one of the main roles of the built-in `<View>` component?

- a. Directly output text.
- b. Structure / Group other child components.
- c. Handle touch events.

**Correct Answer:** Option b - Structure / Group other child components.

**Explanation:**

- Option a – That's wrong. For text, there's a dedicated `<Text>` component which you need to use.
- Option b – That's correct! The `<View>` allows you to group other components together, structure them (i.e. provide a layout) and (optionally) add some container styling.
- Option c – That's wrong. There are other components that help you with handling touch events.

2. Can you use HTML elements (e.g. `<div>`, `<p>`, `<input>`) in React Native apps?

- a. Yes, React Native is able to handle HTML components, but native components are preferred.
- b. No, React Native doesn't provide any built-in components, you need to build all components from scratch.
- c. No, React Native doesn't recognize these components – it doesn't know how to compile them to native views.

**Correct Answer:** Option c - No, React Native doesn't recognize these components – it doesn't know how to compile them to native views.

**Explanation:**

- Option a – That's wrong, React Native doesn't "understand" HTML elements.
- Option b – That's wrong. React Native does offer built-in components which you use to build your own components.
- Option c – That's correct!

3. What's the relation between React Native component styling and CSS (Cascading Style Sheets) for the Web?

- a. React Native styling is inspired by CSS (comparable / similar property names and values).
- b. React Native uses the exact same syntax but only supports a limited set of features.
- c. There is no connection.

**Correct Answer:** Option a - React Native styling is inspired by CSS (comparable / similar property names and values).

**Explanation:**

- Option a – That's correct. Whilst the exact property names and values you use don't always match the CSS alternative, the goal of RN is to get as close as possible.
- Option b – That's not entirely correct. The syntax doesn't match 100%.
- Option c – That's wrong, there absolutely is!

4. Which of the following example style rules does NOT work in React Native?

- borderColor: 'black'
- padding: 10
- 'background-color': '#ccc'

**Correct Answer:** Option c - 'background-color': '#ccc'

**Explanation:**

- Option a - That's wrong - this property-value combination does work (e.g. if applied to a View)
- Option b - That's wrong, this property-value combination does work (e.g. if applied to a View)
- Option c - That's correct. This won't work in React Native because 'background-color' is not a supported property name (even though it's technically valid JS code).

5. Why would you use `const styles = StyleSheet.create({})` instead of a regular JavaScript object (`const styles = {}`)?

- There is no reason to use `StyleSheet`.
- Using a `StyleSheet` adds validation and potential performance improvements.
- Using a `StyleSheet` unlocks extra styling properties.

**Correct Answer:** Option b - Using a `StyleSheet` adds validation and potential performance improvements.

**Explanation:**

- Option a – That's wrong, you should use a `StyleSheet`.
- Option b - That's correct!
- Option c – That's wrong, there are no extra properties to be unlocked.

6. What's "Flexbox"?

- A styling property that allows you to order items in a grid.
- A component built into React Native which you can use to structure content.
- A concept/ set of styling properties that allows you to structure content (i.e. create layouts).

**Correct Answer:** Option c - A concept/ set of styling properties that allows you to structure content (i.e. create layouts).

**Explanation:**

- Option a – That's wrong, it's neither a single styling property nor is it related to creating grids.
- Option b – That's wrong, it's not a component!
- Option c – That's correct!

7. What's the default styling/ layout behavior of a `<View>` component?'
  - It organizes child components in a grid.
  - It doesn't allow any ordering or structuring of child components.
  - It uses Flexbox to organize its child components.

**Correct Answer:** Option c - It uses Flexbox to organize its child components.

**Explanation:**

- Option a – That's not correct, it doesn't organize anything in a grid.
- Option b – That's wrong. The opposite is the case - View is great when it comes to structuring child content.
- Option c – That's correct!

8. If a `<View>` has `flexDirection: 'column'` (which is the default) - what does `alignItems: 'flex-end'` do in that case?
  - It positions all child elements at the end of the column – on the horizontal axis.
  - It positions all child elements at the end of the column – on the vertical axis.
  - It has no effect.

**Correct Answer:** Option a - It positions all child elements at the end of the column – on the horizontal axis.

**Explanation:**

- Option a – That is correct! `alignItems` positions elements along the cross axis. For `flexDirection: 'column'`, the cross axis is the horizontal axis.
- Option b – That's wrong - this would be achieved with `justifyContent: 'flex-end'`
- Option c – That's wrong - there is an effect!

## Quiz 2- More Components and Lists

1. How do you output a list (array) of content in React apps?
  - a. You need a special component to output a list (array) of data.
  - b. You use `map()` to map (=transform) the array of data into an array of components.

**Correct Answer:** Option b - You use `map()` to map (=transform) the array of data into an array of components.

**Explanation:**

- Option a – That's incorrect. You don't need a special component to output an array of data.
- Option b – This is correct.

2. Why might you need a `<ScrollView>` instead of a normal `<View>`?
  - a. Unlike browser, mobile apps don't give you automatic scrolling. `<ScrollView>` adds it.
  - b. A `<ScrollView>` gives you more efficient / optimized scrolling than you would've gotten without it.
  - c. You can't `map()` array data to components without a `<ScrollView>`.

**Correct Answer:** Option a - Unlike browser, mobile apps don't give you automatic scrolling. `<ScrollView>` adds it.

**Explanation:**

- Option a – That's correct. By default, the views you're building aren't scrollable. `ScrollView` changes that.
- Option b – That's wrong, `ScrollView` doesn't optimize scrolling.
- Option c – That's wrong, you don't need `ScrollView` to output a list of data.

3. What's the core difference between `<FlatList>` and `<ScrollView>`?
  - a. `ScrollView` optimizes scrolling by only rendering what's required.
  - b. `FlatList` optimizes scrolling by only rendering what's required.
  - c. There is no big difference, `FlatList` is just a modern replacement for `ScrollView`.

**Correct Answer:** Option b - `FlatList` optimizes scrolling by only rendering what's required.

**Explanation:**

- Option a – That's wrong. But close (kind of...)!
- Option b – That's correct!
- Option c – That's wrong - there is a real difference.

