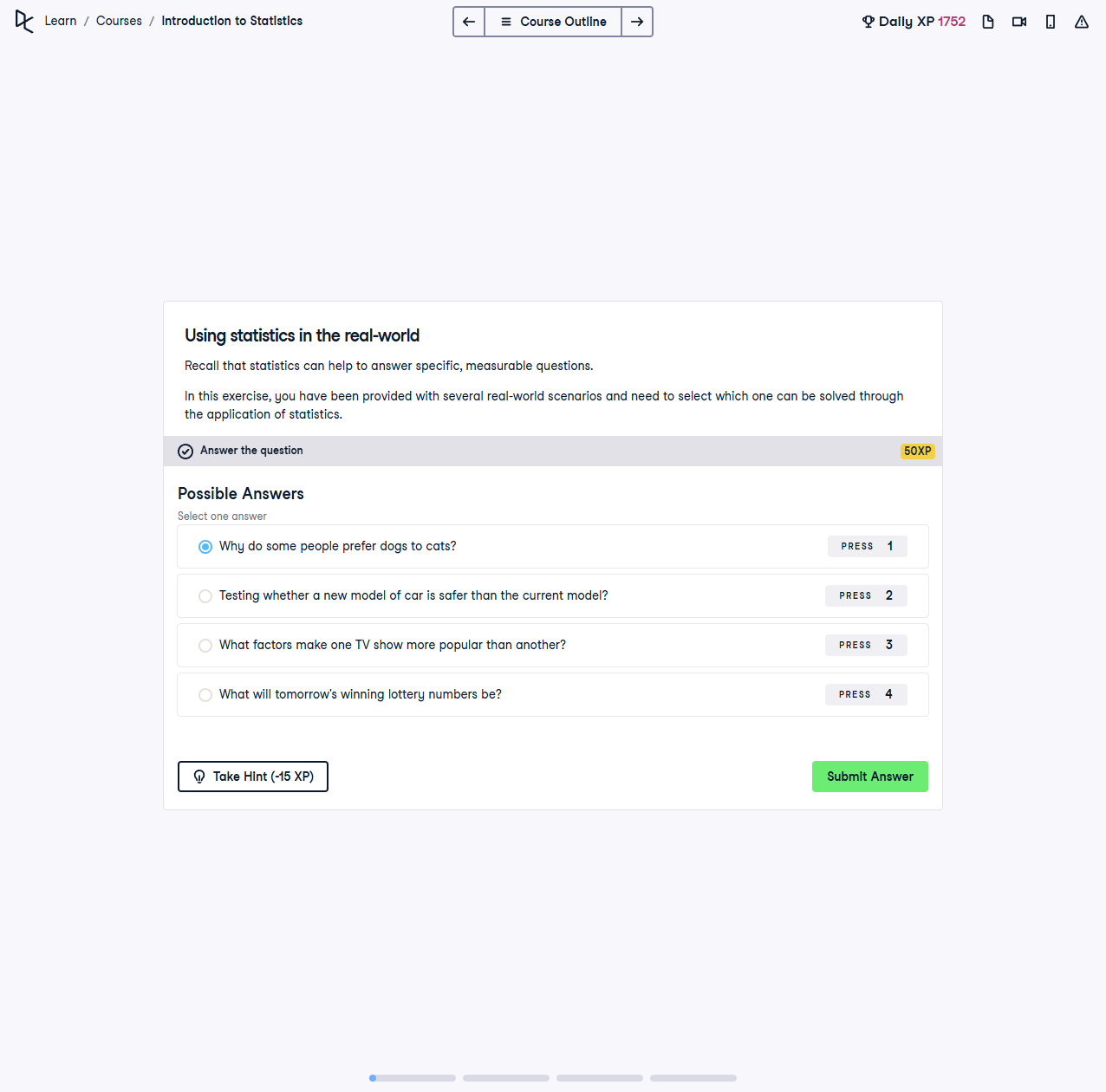
# Using Statistics in the Real World - Solution



## Question

Recall that statistics can help to answer specific, measurable questions. In this exercise, you have been provided with several real-world scenarios and need to select which one can be solved through the application of statistics.

## Solution and Explanation

The correct answer is:

\*\*Testing whether a new model of car is safer than the current model?\*\*

### Explanation:  
1. \*\*Why is this the correct answer?\*\*  
 - Statistics can analyze measurable and testable questions. To determine if a new car model is safer than an older model, measurable data such as crash test results, injury reports, and accident rates can be collected and statistically compared.  
  
2. \*\*Why not the other options?\*\*  
 - \*\*'Why do some people prefer dogs to cats?':\*\* This is subjective and based on personal preferences rather than measurable data.  
 - \*\*'What factors make one TV show more popular than another?':\*\* While statistics can measure popularity (e.g., viewership ratings), this question involves multiple subjective variables that go beyond straightforward statistical analysis.  
 - \*\*'What will tomorrow’s winning lottery numbers be?':\*\* This involves random chance and cannot be predicted using statistics.