

Week 6 Challenge Problem

Let's clear the global computing environment:

```
rm( list = ls() )
```

Now let's load in the Problem Set 6 R object file:

```
load( "Problem Set 6 R Objects.Rdata" )
```

Week 6 Challenge Problem: Pie Chart vs. Barplot

I've mentioned that many people disapprove of pie charts. Instead, they advocate using barplots to display this information. In this problem, we'll explore this issue.

Other than the graph in part (a), the answers for this problem are not really “right” or “wrong”, and we'll give you credit as long as you write something reasonable. However, I think you'll get more out of the problem if you engage with it and really try to think about this issues here.

This challenge problem is a continuation of Problem 4 from Problem Set 6, so you should solve that first before working on this.

Part (a): Barplot

Construct a barplot of the data from problem 4.

Solution

Part (b): Barplot analysis

Using the barplot from part (a), can you easily determine Hank Aaron's batting average? Don't do any calculations in your head – just by looking at the shapes, can you make a reasonable estimate of Hank Aaron's batting average? Explain your answer with a few sentences.

Solution

Part (c): Pie chart

Construct a pie chart for the data from Problem 4.

Solution

Part (d): Pie chart analysis

Using the pie chart from part (c), can you easily determine Hank Aaron's batting average? Don't do any calculations in your head – just by looking at the shapes, can you make a reasonable estimate of Hank Aaron's batting average? Explain your answer with one or two sentences.

Solution

Part (e): Comparison

Comparing your answers from parts (b) and (d), do you agree with people who think we should always use barplots instead of pie charts? Explain your answer with one or two sentences.

Solution