

LEARNING CHECK

Problem #1

Use this ANOVA summary table to answer the questions that follow it:

| Source of variability | <i>SS</i> | <i>df</i> | <i>MS</i> | <i>F</i> |
|-----------------------|-----------|-----------|-----------|----------|
| Between-groups | 14 | 4 | 3.50 | 0.91 |
| Within-groups | 184 | 48 | 3.83 | |
| Total | 198 | 52 | | |

1. What is the sample size for this analysis? Explain how you know.

A: 53 because the df_{total} is 52, and it was calculated by taking the sample size $- 1$. Therefore, for df_{total} to be 52, the sample size had to be 53.

(Continued)