

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>
Factor A	50	1	50	5.00
Factor B	2	1	2	0.20
Interaction _{AxB}	15	1	15	1.50
Within-groups	440	44	10	
Total	507	47		

1. What is the sample size for this analysis?

A: 48; we know this because $df_{\text{total}} = 47$. This number was calculated by taking the sample size – 1. Therefore, to get $df_{\text{total}} = 47$, the sample size has to be 48.

(Continued)