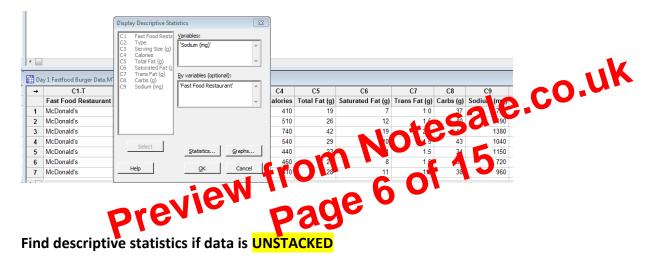
## **Minitab 17 Instructions**

NOTE: This feature only provides you results to two decimal places. If you need more than 2 decimal places in your results (because your MML homework asks for more), find the descriptive stats another way (see next page).

## Find descriptive statistics if data is STACKED

Stat $\rightarrow$ Basic statistics $\rightarrow$  Display descriptive statistics

The sodium data is stacked. This means that all of the sodium levels are in one column (C9) and the names of the restaurants are in another column (C1-T). If you want the mean of all sodium levels, then just find the mean of C9. But, if you want the mean of sodium levels for each restaurant, then you need to use the 'By variables'. See image below:

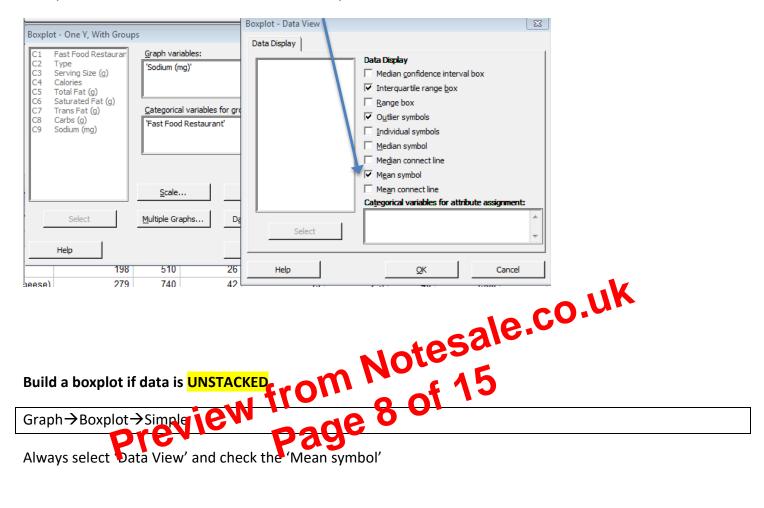


Stat $\rightarrow$ Basic statistics $\rightarrow$  Display descriptive statistics

Works	ksheet 2 ***		C2 C3	Sodium (mg)_Mc Sodium (mg)_W€	'Sodium (mg)_Wendy_s'	
t	C1 C2		C3			By variables (optional):
S	Sodium (mg)_Burger King	Sodium (mg)_McDonald_s	Sodium (mg)_Wendy_s			
1	1020	730	900			
2	1450	1190	1500			
3	1090	1380	2090			
4	1520	1040	1920			
5	1160	1150			Coloret .	
6	1590	720		-	Select	Statistics Graphs
7	570	960			Help	OK Cancel

## $Graph \rightarrow Boxplot \rightarrow With Groups$

Always select 'Data View' and check the 'Mean symbol'



					Boxplot - One Y, Simple				
<					Sodium (mg)_Burger Sodium (mg)_McDona Sodium (mg)_Wendy	Graph variables: Sodium (mg)_Burger King 'Sodium (mg)_McDonald_s' 'Sodium (mg)_Wendy_s'			
Worksheet 2 ***									
+	C1	C2	C3					*	
	Sodium (mg)_Burger King	Sodium (mg)_McDonald_s	Sodium (mg)_Wendy_s						
1	1020	730	900						
2	1450	1190	1500			<u>S</u> cale	<u>L</u> abels	Data View	
3	1090	1380	2090			for the second s	[		
4	1520	1040	1920			Multiple Graphs	Data Options		
5	1160	1150		<u> </u>					
6	1590	720			Select				
7	570	960		-					
					Help		<u>o</u> ĸ	Cancel	

8