



## Answers to Exercise 5.2 (p. 153)

First of all, check to see that you have weighted your dataset with the variable 's1weight' (see Figure 2.5 on p. 52 for how to do this). Once this has been done, you then need to use the **Data** → **Split File...** procedure to split the output you are going to generate by the variable 'ethsfr' (the racial/ethnic group of the pupils).

Having done this, use the **Analyze** → **Descriptive Statistics** → **Explore...** procedure for the variable 'gscepts'. You will then get a series of tables in your output presenting various summary statistics for each racial/ethnic group. The first of these, for White pupils, is shown below as an illustration.

Descriptives<sup>a</sup>

		Statistic	Std. Error	
Year 11 GCSE/GNVQ points score	Mean	43.175	.1944	
	95% Confidence Interval for Mean	Lower Bound	42.794	
		Upper Bound	43.556	
	5% Trimmed Mean	43.379		
	Median	44.500		
	Variance	424.973		
	Std. Deviation	20.6149		
	Minimum	.0		
	Maximum	117.0		
	Range	117.0		
	Interquartile Range	29.0		
	Skewness	-.156	.023	
	Kurtosis	-.471	.046	

a. Ethnicity for c12s1 SFR = White

As can be seen, the 95% confidence interval for this group of pupils is included in the table. Have a look at your own output, you should find that the means and 95% confidence intervals for all of the racial/ethnic groups are as below:

Racial/Ethnic Group	Mean GCSE Score	95% Confidence Interval	
		Lower Bound	Upper Bound
White	43.175	42.794	43.556
Black	34.463	32.442	36.484
Indian	51.794	49.926	53.662
Pakistani	36.405	34.174	38.635
Bangladeshi	39.723	36.166	43.279
Other Asian	47.679	43.687	51.671
Other Ethnic Group (inc. Mixed)	44.340	41.998	46.681