Name: ______________________________ Date: ________________________

Chapter 8 Gifted and Enrichment

1. A circular pie is 3.8 cm deep and has a top with a surface area of 572.265 cm^2. What are the minimum dimensions of a square box that could be used for packing the pie? Express your answer to the nearest centimetre.	**2.** A car lot has cars in five colours: $\frac{3}{16}$ are black, $\frac{1}{4}$ are blue, $\frac{1}{8}$ are red, $\frac{1}{16}$ are silver, and $\frac{3}{8}$ are white. Draw a circle graph with a diameter of 8 cm to show the portion of the total number of cars on the lot represented by each colour.
3. A survey of what fruit students brought to school with their lunch gave the following results: 27 brought apples, 34 brought bananas, 6 brought grapefruits, 17 brought oranges, 12 brought pears, and 5 brought something other fruit. Use a computer spreadsheet program to create a table and a circle graph of the data.	**4.** A circular training ring is set up to exercise horses. The diameter of the ring is 20 m. When the horses are exercised, they run 1.5 m inside the fence. What is the minimum number of full laps the horse must complete in order to run at least 1 km?