

Name : _____ Date : _____

Where Should I Get My Music?

Evaluate:

You will be comparing two music download services and choosing which is best given different situations. You will need to make a decision on a service based on your preferences and you will justify your selection mathematically.

Seeing the success of the music downloads, several other music download services have appeared on the internet. You have narrowed your choices. The cost for one service is a recurring monthly fee of \$5.50 with a cost of \$0.79 per download and no limit on the number of downloads per month. The cost for the other service has no recurring monthly fee and the cost is \$0.99 per song and no limit on the number of songs downloaded.

What important things should be considered before deciding which service to choose? Why?

Create a table for 4, 12, 22, 32, and 40 downloads and generate function for a each service. Label your table appropriately.

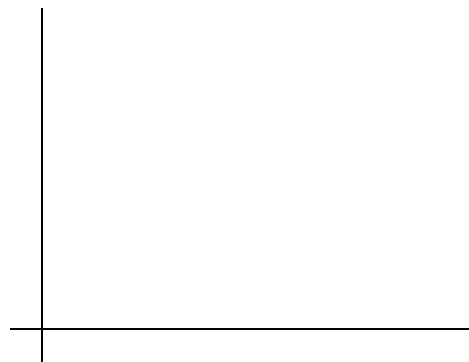
	Process	

	Process	

Function: _____

Function: _____

Graph the two functions on the same coordinate plane and label the graph. Analyze the graphs, tables, and functions. What causes the differences? Use mathematical reasoning to justify your answer.



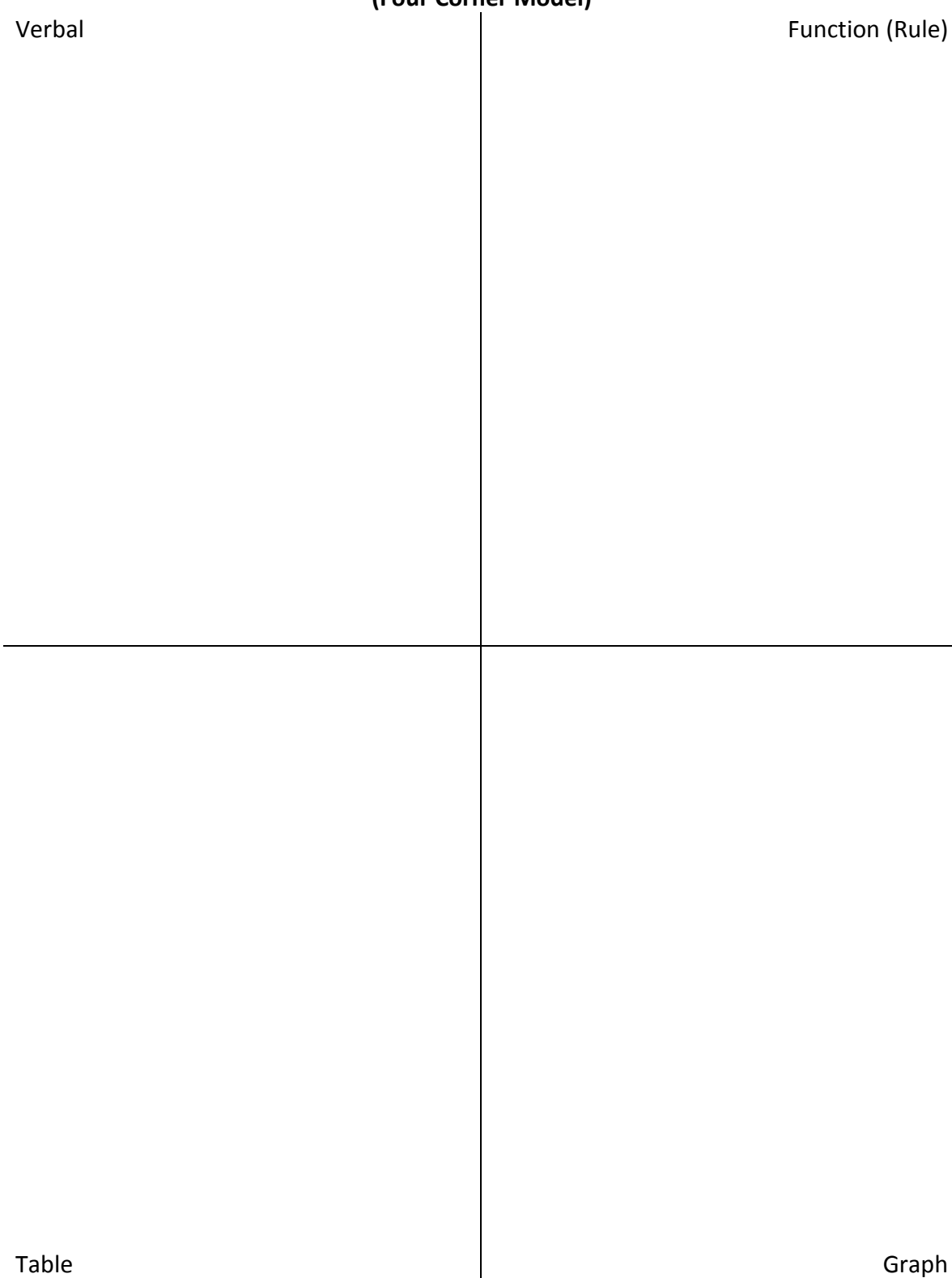
Describe two situations that illustrate why one service is better than the other.

Which service would you choose? Why?

**Multiple Representations of a Function
(Four Corner Model)**

Verbal

Function (Rule)



Table

Graph