



Name: _____

Deep Sea Transect Data Questions

1. Compare and contrast the various habitats you observed on each transect.
2. What species were most abundant in each habitat? Why do you think this is the case?
3. Which transects had the most species diversity, or number of species? Why do you think this is the case?
4. *For Channel Islands transects only:* Use the table to answer the following questions:

Transect Name	Depth (meters)	Temperature (°C)
Shallow 1 Carrington	65	12.1
Shallow 2 Carrington	68	10.9
Shallow 3 San Miguel	77	10.4
Deep 1 The Footprint	174	9.4
Deep 2 The Footprint	153	9.5
Deep 3 PiggyBank	309	8.7
Footprint Alternative	176	8.7
PiggyBank Alternative	288.6	8.7

- a. How did species abundance/diversity change with depth? Why do you think this is the case?



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b. Did temperature change with depth? Why do you think this is the case? Do you think that temperature has an impact on deep sea coral communities? Why or why not?

5. *For Greater Farallones transects only:* How did species abundance/diversity change with each habitat type? Which habitat has the highest diversity or are they all similar?

6. Throughout each transect, how did the abundance for each species vary? Did the habitat vary minute to minute? Describe what you saw in a few sentences.

7. Based on the video transects and the graphs you created, what species are most abundant in the deep sea habitat of each of the sanctuaries/transects you viewed?

8. What variables exist in doing a study like this?

