**Thought Experiments**

You are given a hypothetical scenario, using the knowledge from the previous lessons, please answer to the best of your ability. And please use complete sentences.

Option 1

You are a scientist and have been given an organism to identify that has a true body cavity as its only distinguishable characteristic. Explain your scientific reasoning to your colleagues on what phylum you think this organism belongs in.

Option 2

Your younger sister points to both the brittle star and the sea star and asks if they are sisters. How would you go about answering your sister’s question?