

Round: 5B

Figure 1: Relationship between marine mammal body length ratios and social structure

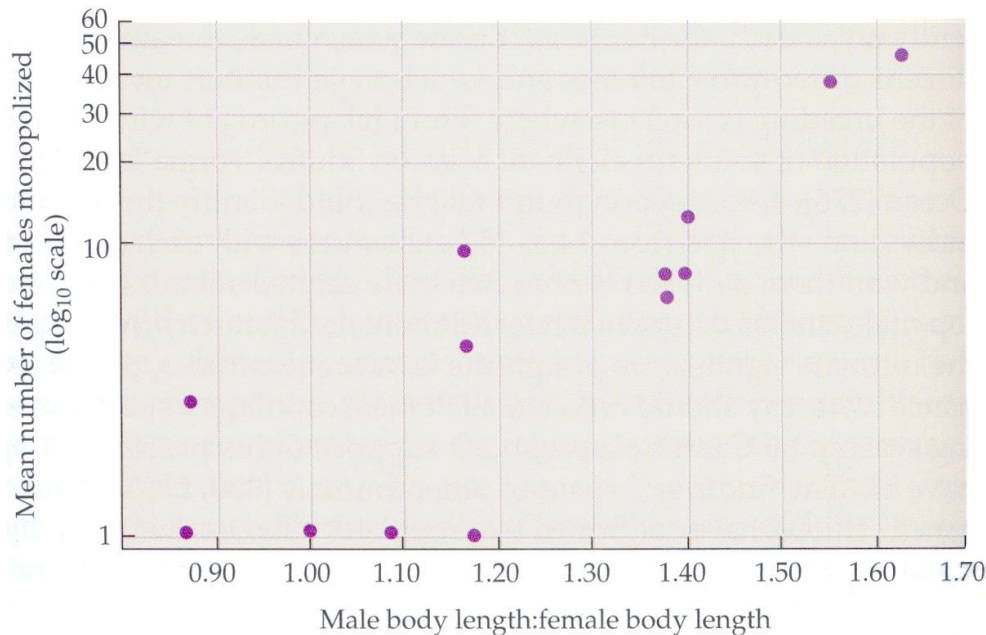


Figure 1 above illustrates the trends in female acquisition among male seals and other related marine mammals.

1. Describe the relationship between male:female size ratio and female monopolization as illustrated in Figure 1. (5 pts)
2. Which male:female size ratio (approximate) was able to acquire the most females? (4 pts)
3. Define sexual selection and sexual dimorphism. What impact does sexual selection have on sexual dimorphism in seal and related marine mammal species? (11 pts)

Sexual selection:

Sexual dimorphism: