Each section has suggested problems to help you get started. Only the required problems should be submitted.

**Section 3.4.**

- Suggested: 1, 2, 3, 6, 7, 9.
- Required: 8, 10, 26, 56, 64.

**Section 3.5.**

- Suggested: 1, 3, 5, 7, 14, 15.
- Required: 30, 36, 50, 52 (this problem requires some care), 60, 64.

**Section 3.6.** (All required.)

1. (a) Into how many distinct words (including nonsense words) can the letters in PEPPERDINE be arranged?
   (b) Into how many distinct words (including nonsense words) can the letters in MALIBU be arranged?

2. Textbook problems 8, 26, 40, 42.

**Section 4.1.**

- Suggested: 2, 3, 10, 11, 12, 13.
- Required: 14, 16, 20, 26.

**Section 4.2.**

- Suggested: 7, 8, 10, 11, 12, 18, 33-36.
- Required: 16, 20, 28, 38, 50.