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 PEP-PERDINE be arranged?
   (b) Into how many distinct words (including nonsense words) can the letters in MAL-IBU 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.