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Course: MAT1301-14A-1A16-S2
Book: Pirnot: Mathematics All Around,
5e

Assignment: Unit V Homework

3. List all the ways to select two different members from S with repetition. The order in which members are selected is important. For example, AA is allowed and AB is not the same selection as BA.

$$S = \{C, D, E, F, G\}$$

Identify the list of all the ways to select two members from S. Choose the correct answer below.

- ☐ A. CC, CD, CE, CF, CG, DC, DD, DE, DF, DG, EC, ED, EE, EF, EG, FC, FD, FE, FF, FG, GC, GD, GE, GF, GG
- ☐ B. CC, CD, CE, CF, CG, DE, DF, DG, EF, EG, FG
- ☐ C. CE, CF, CG, DE, DF, DG, EF, EG
- ☐ D. CC, CD, CE, CF, CG, DD, DE, DF, DG, EE, EF, EG, FF, FG, GG

4. How many different two-digit numbers can you form using the digits 8, 4, 9, 2, 5, and 1 without repetition? For example, 44 is not allowed.

The number of different two-digit numbers is .

5. How many different two-digit numbers can be formed using the digits 1, 3, 2, 5, and 8 with repetition? For example, 11 is allowed.

The number of different two-digit numbers is .

6. How many different three-digit numbers can be formed using the digits 4, 2, 3, 8, and 1 without repetition? For example, 223 is not allowed.

The number of different three-digit numbers is .

7. How many different three-digit numbers can be formed using the digits 6, 8, 9, 1, and 2 with repetition? For example, 889 is allowed.

The number of different three-digit numbers is .