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

Assignment: Unit V Homework

19. An equestrian club has seventeen members. If the club wants to select a president, vice president, and treasurer (all of whom must be different), in how many ways can this be done?

How many ways can the three positions be filled?

20. The owner of a stereo store wants to advertise that he has many different sound systems in stock. The store carries 6 different CD players, 7 different receivers, and 9 different speakers.

Assuming a sound system consists of one of each, how many different sound systems can he advertise?

How many different sound systems can the owner advertise?

21. A game uses an 11-sided die. Determine the number of possibilities of rolling the 11-sided die twice.

There are possibilities of rolling an 11-sided die twice.

22. A restaurant offers 8 appetizers and 6 main courses. In how many ways can a person order a two-course meal?

There are ways a person can order a two-course meal.

23. Using the digits 0, 1, 2, ..., 8, 9, determine how many 7-digit numbers can be constructed according to the following criteria.

One cannot be used for the first digit; digits may be repeated.

The number of 7-digit numbers that can be constructed is .

24. Using the digits 0, 1, 2, ..., 8, 9, determine how many 4-digit numbers can be constructed according to the following criteria.

The number must be odd and greater than 6,000; digits may be repeated.

The number of 4-digit numbers that can be constructed is .