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Time: 5:41 AM

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Course: MAT1301-14A-1A16-S2

Book: Pirnot: Mathematics All Around,

5e

Assignment: Unit V Homework

8. Assume two four-sided dice are rolled each with the numbers 1, 2, 3, and 4. The first one is red and the second one is green. Use a systematic listing to determine the number of ways to roll both numbers that are different.

Use ordered pairs of the form (red number, green number) to represent the pairs showing on the dice. Choose the correct answer below.

- ☐ A. (1, 1), (3, 3), (4, 4)
- ☐ B. (1, 1), (2, 2), (3, 3), (4, 4)
- ☐ C. (1, 2), (1, 3), (1, 4), (2, 1), (2, 3), (2, 4), (3, 1), (3, 2), (3, 4), (4, 1), (4, 2), (4, 3)
- ☐ D. (1,2), (1,3), (1,4), (3,1), (3,2), (3,4), (4,1), (4,2), (4,3)

9. Assume you are rolling two dice; the first one is red, and the second is green. Use a systematic listing to determine the number of ways you can roll a total less than 12 on the two dice.

In how many ways can you roll less than 12?

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