Name _____ Date _____

Quiz: Counting Principle

1. A student has to select one of 4 different mathematics books, one of 5 different chemistry books, and one of 2 different science books. In how many different ways can a student select?

2. A restaurant has 5 sodas that come in 3 different cup sizes. How many different drinks can you order?

3. 4 coins are tossed and 3 dice are rolled. What is the total number of all possible outcomes?

4. The digits 2, 4, 5, 8, and 9 are to be used in a 3-digit ID card. How many different cards are possible if repetitions are not permitted?

5. A coin is tossed 4 times. What is the total number of all possible outcomes?

6. A nurse has 7 patients to visit. How many different ways can she make her rounds if she checks each patient once?

7. 2 dice are rolled and 2 coins are tossed. What is the total number of all possible outcomes?

8. If you can get 8 kinds of pens in 6 different ink colors, how many different pens are available?

9. There are 8 different roads from city A to city B and 4 different roads from city B to city C. In how many ways can someone go from city A to city C passing by city B?

10. How many different arrangements are there of the digits 5641?

Circle # Correct	0	1	2	3	4	5	6	7	8	9	10
Percentage Score	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%