

Name _____ Date _____

Quiz: Permutations

1. Evaluate $9! / {}_8P_6$
2. Evaluate ${}_5P_2 / 3!$
3. Evaluate $(7 - 4)!$
4. Evaluate ${}_6P_5 / {}_3P_1$
5. Evaluate ${}_7P_7 / 5!$
6. Evaluate ${}_6P_3 / 3!$

7. How many different 4 digit vehicle number plates can be made if the first digit must not be 6 and no digits may be repeated?

8. There are four different numbers 4, 5, 6, and 8. How many numbers start with the number 5?

9. How many 2 digit license plates can be made if the first digit must not be 0 and 1, but digits may be repeated?

10. How many different arrangements can be made using two of the letters of the word KEYBOARD, if KEY is remain together in all words?

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%