

Open Resource Quiz

Topics in Contemporary Mathematics (MATH 110) Date: September 23, 2013

Name:

1. (2 pt) Suppose 11 people are entered in a race. If there are no ties, in how many ways can the first 3 places come out?
2. (2 pt) How many even 4-digit numbers can be formed from the digits 4, 5, 7, 8, and 9 with no repetitions allowed? (Hint: Try filling the units place first.)
3. (2 pt) A red six-sided die and a green six-sided die are tossed. In how many ways is it possible for the dice to come up even numbers? (Distinguish between the 2 dice.)
4. (2 pt) If 5 horses are in a race and they all finish with no ties, in how many ways can the horses finish the race?
5. (2 pt) Compute the given number $\frac{9!}{6!3!}$.