

Mixed Up Review Solutions

Problem Types

1. Counting
2. Circular
3. Circular
4. Permutations
5. Combinations
6. Restrictions
7. Factorial
8. Counting
9. Permutations
10. Permutations
11. Permutations
12. Combinations
13. Circular
14. Permutations
15. Permutations
16. Restrictions
17. Factorial
18. Restrictions
19. Permutations
20. Factorial Repeats
21. Factorial Repeats and Restrictions
22. Restrictions
23. Factorial Repeats
24. Permutations Repeats
25. Combinations
26. Combinations
27. Combinations
28. Counting
29. Combinations
30. Factorial Repeats
31. Combinations (I guess)
32. Factorial Repeats
33. Counting
34. Restrictions
35. Restrictions
36. Counting
37. Permutations Repeats
38. Combinations
39. Counting
40. Factorial
41. Restrictions
42. Combinations

Solutions, with lots of errors

1. 25
2. 120
3. 362,880
4. 11,880
5. 15
6. 144
7. 40,320
8. 970,299
9. 20
10. 720
11. 5040
12. 20
13. 5040
14. 6720
15. 20
16. 1440
17. 24
18. 40,320
19. 24
20. 84
21. 10
22. 32,659,200
23. 39,916,800
24. 14
25. 2,520
26. 55,055
27. 2,520
28. 14,400
29. $5/17 = 0.2941$
30. 35
31. $5/11 = 0.4545$
32. 415,800
33. $1/1,000,000$
34. 40,320
35. 90,720
36. $1/3,628,800$
37. 72
38. 840
39. 24
40. 120
41. 120
42. $60/1716 = 5/143 = 0.035$