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1)  $\binom{1}{1} = \frac{1!}{1!0!} = 1$  | 2)  $\binom{2}{1} = \frac{2!}{1!1!} = 2$  | 3)  $\binom{2}{2} = \frac{2!}{2!0!} = 1$  | 4)  $\binom{3}{1} = \frac{3!}{1!2!} = 3$  | 5)  $\binom{3}{2} = \frac{3!}{2!1!} = 3$  | 6)  $\binom{3}{3} = \frac{3!}{3!0!} = 1$

7)  $\binom{4}{1} = \frac{4!}{1!3!} = 4$  | 8)  $\binom{4}{2} = \frac{4!}{2!2!} = 6$  | 9)  $\binom{4}{3} = \frac{4!}{3!1!} = 4$  | 10)  $\binom{4}{4} = \frac{4!}{4!0!} = 1$

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11)  $\binom{5}{1} = \frac{5!}{1!4!} = 5$  | 12)  $\binom{5}{2} = \frac{5!}{2!3!} = 10$  | 13)  $\binom{5}{3} = \frac{5!}{3!2!} = 10$  | 14)  $\binom{5}{4} = \frac{5!}{4!1!} = 5$  | 15)  $\binom{5}{5} = \frac{5!}{5!0!} = 1$

16)  $\binom{6}{1} = \frac{6!}{1!5!} = 6$  | 17)  $\binom{6}{2} = \frac{6!}{2!4!} = 15$  | 18)  $\binom{6}{3} = \frac{6!}{3!3!} = 20$  | 19)  $\binom{6}{4} = \frac{6!}{4!2!} = 15$  | 20)  $\binom{6}{5} = \frac{6!}{5!1!} = 6$  | 21)  $\binom{6}{6} = \frac{6!}{6!0!} = 1$

22)  $\binom{7}{1} = \frac{7!}{1!6!} = 7$  | 23)  $\binom{7}{2} = \frac{7!}{2!5!} = 21$  | 24)  $\binom{7}{3} = \frac{7!}{3!4!} = 35$  | 25)  $\binom{7}{4} = \frac{7!}{4!3!} = 35$  | 26)  $\binom{7}{5} = \frac{7!}{5!2!} = 21$  | 27)  $\binom{7}{6} = \frac{7!}{6!1!} = 7$  | 28)  $\binom{7}{7} = \frac{7!}{7!0!} = 1$

29)  $\binom{8}{1} = \frac{8!}{1!7!} = 8$  | 30)  $\binom{8}{2} = \frac{8!}{2!6!} = 28$  | 31)  $\binom{8}{3} = \frac{8!}{3!5!} = 56$  | 32)  $\binom{8}{4} = \frac{8!}{4!4!} = 70$  | 33)  $\binom{8}{5} = \frac{8!}{5!3!} = 56$  | 34)  $\binom{8}{6} = \frac{8!}{6!2!} = 28$  | 35)  $\binom{8}{7} = \frac{8!}{7!1!} = 8$  | 36)  $\binom{8}{8} = \frac{8!}{8!0!} = 1$

37)  $\binom{9}{1} = \frac{9!}{1!8!} = 9$  | 38)  $\binom{9}{2} = \frac{9!}{2!7!} = 36$  | 39)  $\binom{9}{3} = \frac{9!}{3!6!} = 84$  | 40)  $\binom{9}{4} = \frac{9!}{4!5!} = 126$  | 41)  $\binom{9}{5} = \frac{9!}{5!4!} = 126$  | 42)  $\binom{9}{6} = \frac{9!}{6!3!} = 84$  | 43)  $\binom{9}{7} = \frac{9!}{7!2!} = 36$  | 44)  $\binom{9}{8} = \frac{9!}{8!1!} = 9$  | 45)  $\binom{9}{9} = \frac{9!}{9!0!} = 1$

46)  $\binom{10}{1} = \frac{10!}{1!9!} = 10$  | 47)  $\binom{10}{2} = \frac{10!}{2!8!} = 45$  | 48)  $\binom{10}{3} = \frac{10!}{3!7!} = 120$  | 49)  $\binom{10}{4} = \frac{10!}{4!6!} = 210$  | 50)  $\binom{10}{5} = \frac{10!}{5!5!} = 252$  | 51)  $\binom{10}{6} = \frac{10!}{6!4!} = 210$  | 52)  $\binom{10}{7} = \frac{10!}{7!3!} = 120$  | 53)  $\binom{10}{8} = \frac{10!}{8!2!} = 45$  | 54)  $\binom{10}{9} = \frac{10!}{9!1!} = 10$  | 55)  $\binom{10}{10} = \frac{10!}{10!0!} = 1$

56)  $\binom{11}{1} = \frac{11!}{1!10!} = 11$  | 57)  $\binom{11}{2} = \frac{11!}{2!9!} = 55$  | 58)  $\binom{11}{3} = \frac{11!}{3!8!} = 165$  | 59)  $\binom{11}{4} = \frac{11!}{4!7!} = 330$  | 60)  $\binom{11}{5} = \frac{11!}{5!6!} = 462$  | 61)  $\binom{11}{6} = \frac{11!}{6!5!} = 462$  | 62)  $\binom{11}{7} = \frac{11!}{7!4!} = 330$  | 63)  $\binom{11}{8} = \frac{11!}{8!3!} = 165$  | 64)  $\binom{11}{9} = \frac{11!}{9!2!} = 55$  | 65)  $\binom{11}{10} = \frac{11!}{10!1!} = 11$  | 66)  $\binom{11}{11} = \frac{11!}{11!0!} = 1$

67)  $\binom{12}{1} = \frac{12!}{1!11!} = 12$  | 68)  $\binom{12}{2} = \frac{12!}{2!10!} = 66$  | 69)  $\binom{12}{3} = \frac{12!}{3!9!} = 220$  | 70)  $\binom{12}{4} = \frac{12!}{4!8!} = 495$  | 71)  $\binom{12}{5} = \frac{12!}{5!7!} = 792$  | 72)  $\binom{12}{6} = \frac{12!}{6!6!} = 924$  | 73)  $\binom{12}{7} = \frac{12!}{7!5!} = 792$  | 74)  $\binom{12}{8} = \frac{12!}{8!4!} = 495$  | 75)  $\binom{12}{9} = \frac{12!}{9!3!} = 220$  | 76)  $\binom{12}{10} = \frac{12!}{10!2!} = 66$  | 77)  $\binom{12}{11} = \frac{12!}{11!1!} = 12$  | 78)  $\binom{12}{12} = \frac{12!}{12!0!} = 1$