

Probability P5.5 - Factorials

Evaluate

1. $4!$

2. $8!$

3. $7!$

4. $\frac{4!}{3!}$

5. $\frac{6!}{1!}$

6. $\frac{6!}{4!}$

7. $\frac{6!}{4!2!}$

8. $\frac{5!}{2!2!}$

9. $\frac{7!}{3!2!}$

Write out the formula, expand with factorials and then solve:

10. ${}_5P_1$

11. ${}_8P_3$

12. ${}_5C_1$

13. ${}_7C_4$

14. ${}_6C_2$

15. ${}_6P_2$

Given the 12th row of Pascal's Triangle, find the 13th row.

1 12 66 220 495 792 924 792 495 220 66 12 1

— — — — — — — — — — — — —