

Permutations and Combinations Worksheet Answer Key

As a Matter of Factorial...

1. How many ways are there to order 5 books on a shelf?
 $5! = 120$
2. Simplify ${}_{10}P_6$.
 $\frac{10!}{4!} = 5040$
3. How many ways can we order 6 computers if we have only space for 3?
 $\frac{6!}{3!} = 120$
4. How many ways can we order 8 swimsuits in 4 lockers?
 $\frac{8!}{4!} = 1680$
5. How many ways can we choose 4 t-shirts from 6 t-shirts with repetitions allowed?
 $6^4 = 1296$
6. How many 10-digit phone numbers are there?
 10^{10}
7. How many playlists can we make with 38 songs if we can repeat 5 songs in each playlist?
 ${}_{38}P_{33} = 38 \times 37 \times 36 \times 35 \times 34$
8. How many combinations of playlists can we make with 10 songs when there are 5 songs in each and order does not matter?
 ${}_{10}C_5 = \frac{10!}{5!5!}$
9. A drawer contains 6 white t-shirts and 2 red ones. If 2 shirts are drawn at random, what is the probability of getting 2 white shirts?
 $\frac{{}_6C_2}{{}_8C_2} = \frac{15}{28}$
10. There are 10 pink, 15 purple, and 5 green jelly beans in a jar. If two jelly beans are drawn at random (without replacement) what is the probability that both are green?
 $\frac{{}_5C_2}{{}_{30}C_2} = \frac{2}{87}$

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Lesson 1 permutations And Combinations Answers

Yicheng Fang



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