

Permutations and Combinations

- | | |
|---|---|
| 1. How many three digit numbers can you make by arranging the numbers 5, 6, and 9? | 2. How many permutations can you make from the letters Q, W, M, and H? |
| 3. How many three person committees can be chosen from a group of eight people? | 4. There are ten players on the basketball team. How many ways can a starting lineup of five players be chosen? |
| 5. How many ways can a president and vice-president be selected in a class of sixteen students? | 6. There are 4 things in a hat. How many ways can you pick 2 things from the hat at once? |
| 7. There are 7 things in a hat. How many ways can you pick 5 things from the hat at once? | 8. Timothy, Kylie, and Nathan ran in a race. In how many different orders can they finish the race? |
| 9. How many four person committees can be chosen from a group of nine people? | 10. In how many ways can Michael, Amber, Matthew, Kyle, Victoria, and Katherine stand in line? |
| 11. How many combinations of four letters are possible from the letters D, F, X, H, and K? | 12. How many permutations can you make from the letters M, I, and F? |
| 13. How many permutations can you make from the letters A through H? | 14. How many two person committees can be chosen from a group of seven people? |
| 15. Christopher, Nathan, Isaac, and Destiny ran in a race. In how many different orders can they finish the race? | 16. How many four person committees can be chosen from a group of six people? |
| 17. In how many ways can Jordan, Christina, William, Kayla, and Devin stand in line? | 18. There are 4 things in a hat. How many ways can you pick 1 thing from the hat at once? |
| 19. How many six digit numbers can you make by arranging the numbers 8, 6, 5, 4, 3, and 1? | 20. There are 6 things in a hat. How many ways can you pick 3 things from the hat at once? |