

## COMBINATIONS

1. In how many ways can a committee of 4 be selected from a group of seven?
2. In how many ways can six books be selected from ten texts?
3. How many straight lines can be determined by 10 points, no three of which lie in a straight line?
4. How many chords (line segment joining two points located on the circumference of a circle) can be formed by joining 8 points that lie on the circumference of a circle?
5. How many triangles can be formed from eight points, no three of which lie in a straight line?
6. How many five sided figures can be formed from twenty points, no three of which lie on a straight line?
7. In how many ways can a student select five questions out of ten on an algebra exam?
8. In how many ways can a student select 4 classes out of 10?
9. In how many ways can 6 cards be drawn from a deck of playing cards?
10. In how many ways can 10 cards be drawn from a deck of playing cards?
11. In how many ways can a bridge hand be dealt from a deck of playing cards?
12. In how many ways can a person go from point A to point B if 7 different paths lead from A to B?
13. How many combinations are possible using all the letters from the word "problem"?
14. How many combinations are possible using all the letters from the word "point"?
15. How many combinations of three letters can be formed from the letters in the word "uncle"?
16. How many combinations of six letters can be formed from the letters in the word "section"?
17. In how many ways can a researcher select 5 tests plots from twenty for research purposes?
18. In how many ways can a researcher select a sample of 10 individuals from a population of 200 people?
19. In how many ways can a student select two science projects from a list of 30?
20. How many groups of 4 digits can be selected from the digits 0, 1, 2, 3, ... 9?