

Math Worksheets

Combinations and Permutations

 Calculate the value of each.

1) $6! =$ _____

5) $7! =$ _____

2) $2! \times 5! =$ _____

6) $4! =$ _____

3) $3 \times 4! =$ _____

7) $3! + 3! =$ _____

4) $5! + 3! =$ _____

8) $7! - 5! =$ _____

 Find the answer for each word problems.

9) Susan is baking cookies. She uses sugar, butter, Vanilla, eggs and flour. How many different orders of ingredients can she try? _____

10) Albert is planning for his vacation. He wants to go to museum, watch a movie, go to the beach, play the game and play football. How many ways of ordering are there for him? _____

11) How many 4-digit numbers can be named using the digits 3, 4, 5, and 6 without repetition? _____

12) In how many ways can 5 boys be arranged in a straight line? _____

13) In how many ways can 6 athletes be arranged in a straight line? _____

14) A professor is going to arrange her 7 students in a straight line. In how many ways can she do this? _____

15) How many code symbols can be formed with the letters for the word GAMES?

16) In how many ways a team of 7 basketball players can choose a captain and co-captain? _____

Answers of Worksheets

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1) 720

2) 240

3) 72

4) 126

5) 5,040

6) 24

7) 12

8) 4,920

9) 120

10) 120

11) 24

12) 120

13) 720

14) 5,040

15) 120

16) 42

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