MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Evaluate the expression.

Due Tuesday, Mar. 12th

- 1) 8!
- A) 40,328
- B) 40,312
- C) 5040
- D) 40,320
- 1)

- 2) $\frac{12!}{7!}$
 - A) 84,000
- B) 2!

- C) 95,040
- D) $\frac{12}{7}$

- 3) 5P₄
 - A) 5

B) 24

C) 1

- D) 120

- 4) 8^P4
 - A) 1680
- B) 4

C) 70

- D) 2

- 5) 8C3
 - A) 56

B) 3

- C) 112
- D) 120

Solve the problem.

- 6) There are 13 members on a board of directors. If they must form a subcommittee of 5 members, how many different subcommittees are possible?

- A) 1287
- B) 154,440
- C) 120

- D) 371,293
- 7) The library is to be given 7 books as a gift. The books will be selected from a list of 16 titles. If each book selected must have a different title, how many possible selections are there?

- A) 57,657,600
- B) 112
- C) 11,440
- D) 268,435,456
- 8) How many 3-digit numbers can be formed using the digits 1, 2, 3, 4, 5, 6, 7 if repetition of digits is not allowed?

A) 5

B) 343

- C) 210
- D) 6
- 9) How many ways can an IRS auditor select 4 of 12 tax returns for an audit?
 - A) 11,880
- B) 495

- D) 20,736
- 10) A musician plans to perform 7 selections. In how many ways can she arrange the musical selections?

A) 49

B) 7

- C) 5040
- D) 40,320
- 11) A tourist in France wants to visit 8 different cities. How many different routes are possible?
- 11)

A) 64

- B) 5040
- C) 8

D) 40,320