1. **(1 point)** Library/ASU-topics/setCount/sw10_2_5.pg
Evaluate the following expressions:
a) $P(120,1) =$ _____
b) $P(12,6) =$ _____
c) $P(16,3) =$ _____
Correct Answers:
- 120
- 665280
- 3360

2. **(1 point)** Library/ASU-topics/setCount/sw10_1_7.pg
How many different ways can a race with 6 runners be completed? (Assume there is no tie.)
Your answer is : _____

Correct Answers:
- 720

3. **(1 point)** Library/ASU-topics/setCount/sw10_1_33.pg
If 5 -letter "words" are formed using the letters A, B, C, D, E, F, G, how many such words are possible for each of the following conditions:
(a) No condition is imposed.
Your answer is : _____
(b) No letter can be repeated in a word.
Your answer is : _____
(c) Each word must begin with the letter A and letters can be repeated.
Your answer is : _____
(d) The letter C must be at the end and letters can be repeated.
Your answer is : _____
(e) The second letter must be a vowel and letters can be repeated.
Your answer is : _____

Correct Answers:
- 16807
- 2520
- 2401
- 2401
- 4802

4. **(1 point)** Library/NAU/setCounting/Counting_4.pg
Standard automobile license plates in a country display 2 numbers, followed by 2 letters, followed by 3 numbers. How many different standard plates are possible in this system? (Assume lead 0 is not allowed, but repetitions of letters and numbers are allowed.)
Your answer is : _____

Correct Answers:
- 60840000

5. **(1 point)** Library/NAU/setCounting/Counting_3.pg
A company has 1050 employees. Each employee is to be given an ID number that consists of one letter followed by 3 digits.
How many different ID numbers are possible?: _____
Is it possible to give each employee a different ID number using this scheme?
Your answer is (input Yes or No): _____

Correct Answers:
- 26000
- YES