ATHS – Math Department Al Ain – Gr 12 core
Homework worksheet (1) on Lesson 0.4

Students Name	
Class:	

Lesson 0.4 (counting Technique)

1) Pizza house offers three different crusts, four sizes and eight toppings. How many different ways can a customer order a pizza?

2) Omar Math's quiz has eight true-false questions, how many different choices for giving answers to the eight questions are possible?

3) How many different 5 – digit codes are possible if the first digit cannot be 0 and no digit may be used more than once?

4) A student council committee must be composed of two juniors and two sophomores, how many different committees can be chosen from seven juniors and five sophomores?

5) There are 10 finalists in a figure skating competition
How many ways can gold, silver and bronze medals are awarded?

6) A newspaper has nine reporters available to cover four different stories
how many ways can the reporters be assigned to cover the stories?

7) Five cards are drawn from a standard deck of cards. How many hands
consist of three clubs and two diamonds?

8) A group of seven students working on a project needs to choose two
students to represent the group's report. How many ways can they choose
the two students?

9) Determine whether the situation involves permutation or combination then
find the possibilities. The number of ways can 11 players is selected from
25 to form a football team if each of the eleven players can play any
position