

Grade 11 Math

Topics on Final Exam

Topic	YES	NO
Section A - Polygons of Constraints:		
Translates language into equation (4 types and symbols)		
Represent the solution set on a graph. (graph, test and shade using the matrix)		
Identify the vertices of the polygon of constraints (comparison method)		
Identify and formulate the Target Objective		
Find the Optimal Solution		
Deal with a "New Constraint"		
Deal with two possible options		
Identify points that satisfy the polygon, and those that do not.		
Identify number of points that optimize, given a tie		
Knows the steps of solving a word problem		
Section B - Graph Theory		
Has the vocabulary list		
Can identify paths, circuits, trees, Eulers, Hamiltonians etc.		
Can Optimize paths/chains in a word problem using trial and error		
Can Optimize Trees in a word problem by growing and listing the branches.		
Can Optimize Chromatic number by connecting incompatibles and following the steps		
Can Optimize Critical path by dealing with prerequisites and finding the CRITICAL PATH		

Topic	Yes	No
Section C - Probability		
Can describe the sample space of a simple experiment (list)		
Can describe events in a simple experiment (list)		
Can create Venn diagrams for a simple experiment		
Can calculate the probability of simple events		
Can calculate the probability of union of events (mutually exclusive and non-mutually exclusive)		
Can calculate the probability of intersection of events		
Can calculate the probability of the difference event (A and not B)		
Can calculate the probability of Conditional Probability		
Can use the notation and symbols		
Can create and interpret a double entry contingency table		
Can create and interpret a triple Venn		
Can do combinations with and without replacement		
Can interpret combinations in a Venn or with a chart		
Has the formulas for the events		
Voting Procedures and their methods		
Geometry		
Can calculate Volumes of all the shapes including regular polygon bases		
Can calculate Total surface area of all the shapes including regular polygon bases		
Can work backwards to find dimension from given volume		
Equivalent Volumes		
Can optimize Volume and Area with 2d shapes		
Can optimize Volume and Area with 3d shapes		