Name:

Date:

Game Theory Classwork

Directions: Fill in the lines with the appropriate word which makes sense

What is it?

* A branch of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ deals with\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Set of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* The moves or \_\_\_\_\_\_\_\_\_\_\_\_\_ that each player makes
* The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ each player earns after the game

Game Theory Key Terms

* Nash’s Equilibrium-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Named after the great\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* \_\_\_\_\_\_\_\_\_\_\_\_\_must exist for all finite games\_\_\_\_\_\_\_\_\_\_\_\_
* If each player in a finite game has a strategy and can’t benefit by changing their strategy while\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Game Theory Key Terms (Cont.)

* Rationality:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Pay-off:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Pay-off Matrix:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Value of Game:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Prisoner’s Dilemma

* Most popular \_\_\_\_\_\_\_\_\_\_\_\_ of Game Theory
* 2 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ individuals
* Both want their own best  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Both Bob and Amy committed robbery
* Both interrogated \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Scenario for Prisoner's Dilemma

* Scenario #1: Bob and Amy both admit - Both receive \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Scenario #2: Bob admits and Amy does not admit - Bob is \_\_\_\_\_\_\_\_\_\_\_\_\_ ; Amy receives \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
* Scenario #3: Bob does not admit and Amy does admit - Bob receives\_\_\_\_\_\_\_\_\_\_\_\_\_; Amy is \_\_\_\_\_\_\_\_\_\_\_\_
* Scenario #4: Bob and Amy both don’t admit: Both receive \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_