

Game Rules (遊戲規則)

- ➤ There will be SEVERAL rounds (本活動將進行 多 個回合)
- Each group receives 4 cards (same number, 2B2R)
 (各組會發到 4 張牌面數字相同的撲克牌: 兩紅/兩黑)
- ► In each round, each group gives me 2 cards (每回合開始時・主持人會去跟各組收取 2 張撲克牌)
- ➤ You have to decide which 2 cards to DONATE (各組要決定繳交哪兩張牌給主持人以存入 公庫)
- ➤ Donate cards faced down so others cannot see (繳交撲克牌時注意 牌面朝下 以確保他組無法看到你們繳出的牌組內容)

Game Rules (遊戲規則)

- ▶ Payoff depends on number of red cards donated (各組的報酬決定於繳出多少張 紅 牌給 公庫)
- ➤ Value of Red cards kept <u>differ</u> from that donated (紅 牌留在手中 (私庫) 跟存入 公庫 的報酬 不同)
- ➤ In the beginning, each Red card kept yields 5 Ecoins (在前幾個回合中,每張 私庫 中的 紅 牌價值 5 Ecoins)
- ➤ Red card donated yields 10 Ecoins for all groups (公 庫中每張 紅 牌價值 10 Ecoins · 各組都能得到)

Game Rules (遊戲規則)

Ex: 8 groups each donate 1R1B and keep 1R1B

(有 8 組參與遊戲,每一組都繳出一紅一黑存入公庫,並留下一紅一黑在手上)

- → 8 cards donated (=80 Ecoins); each group earn 85 (公庫中共有 8 張紅牌總價值 80 Ecoins · 各組得分 85)
- ➤ Your cards will not be revealed when counting and be returned faced down. (主持人在計算公庫中有多少紅牌時,決不會透露各組所繳出的牌組內容,發回牌組時也會嚴守 牌面朝下 原則)
- ➤ Black cards are worthless & exist only to conceal.
 (黑牌 完全沒有 點數價值 · 其存在目的僅在於 保密)

Game Rules (遊戲規則)

- ► [Summary (整理)] In the beginning, each group earns (在前幾個回合中,各組報酬的計算方式為)
 - 5 * Red cards kept + 10 * Total Red cards donated (私庫紅牌數) 公庫紅牌 總 數)
- ➤ Later, <u>value of red cards</u> kept may change, but <u>value of red cards</u> donated remain the same. (在之後的回合中・私庫 中的紅牌價值會 有所變動・但 公庫 中的紅牌價值 總是不變)

Practice Round (練習回合) 1

Group Earnings (小組報酬) =

5 * R kept + 10 * Total R donated

(私庫紅牌數)

(公庫紅牌 總數)

Practice Round (練習回合) 2

Group Earnings (小組報酬) = 150 * R kept + 10 * Total R donated (私庫紅牌數) (公庫紅牌 總數)

Round (回合) 1

Group Earnings (小組報酬) =
20 * R kept + 10 * Total R donated
(私庫紅牌數) (公庫紅牌 總 數)

Round (回含) 2

Group Earnings (小組報酬) =

20 * R kept + 10 * Total R donated
(私庫紅牌數) (公庫紅牌 總 數)

Allow 2 min Discussion

(開放組間討論 2 分鐘)

Round (回合) 3

Group Earnings (小組報酬) =

20 * R kept + 10 * Total R donated

(私庫紅牌數)

(公庫紅牌 總數)

Allow 2 min Discussion & Reveal Donation (開放組間討論 2 分鐘・資訊公開) Round (回合) 4

Group Earnings (小組報酬) =

20 * R kept + 10 * Total R donated
(私庫紅牌數) (公庫紅牌 總 數)

Calculate Total Earnings (計算總得分)

- ➤ What did your group do in the real round? How many cards did you donate? (你們這一組在正式回合做了什麼的決策(繳出幾張紅牌到公庫)?)
- ➤ Explain your reason for this decision. (請解釋這些決策背後的思考邏輯或理由為何?)

Discussion (小組討論)

- ➤ Did you discuss other considerations or have disagreements on how much to donate? (小組討論時你們有提及哪些考量? 在繳出幾張牌的決策上有出現不一致的看法嗎?)
- Did your decision differ from that of other groups?

(請比較你們的決定跟其他各組的整體情況,有沒有什麼不同?)

- ➤ What is the cost of donating one R?
 (繳出一張紅牌到公庫的代價是什麼?)
- ➤ What is the rate of return donating one R? (繳出一張紅牌到公庫的投資報酬率是多少?)
- ➤ Is it good for groups to donate (from a social standpoint)? Explain. (從所有組別的整體觀點來看,單一組別繳出紅牌到公庫是好事嗎? 請解釋你的推理。)

- ➤ Some goods are non-rival (非敵對/共享), so adding another consumer does not reduce the utility of others consuming it.
- ➤ What are examples of non-rival goods in the real world? Do reds cards donated in the experiment count? Why or why not? (那些現實中的商品具有「非敵對性」?公庫的紅牌算嗎? 為什麼?)

- ➤ Some goods are non-excludable (非排他), so one cannot prevent free-riders from enjoying it.
- > What are examples of non-excludable goods in the real world? Do reds cards donated in the experiment count? Explain. (那些現實中的商品具有「非排他性」?公庫的紅牌算嗎? 請解釋。)

- > If a firm produces something that is both non-rival and non-excludable, what problem will it face?
- ▶ (如果一家廠商生產的商品同時具有「非敵對」與「非排他」兩種特性・ 你認為這家廠商會面臨什麼樣的問題?)

- ➤ What did you discuss in the next-to-last round (when the experimenter left the room)? Did it affect your decision? Was the result of that round surprising to you? Why or why not?
- ▶ (在倒數第二回合主持人離開現場時,各組之間討論了些什麼?你們在 決策時有受到這些討論的影響嗎?這個回合最後的結果有讓你感到驚 訝嗎?如果有的話,為什麼驚訝呢?)

- ➤ Did your decision change in the last round (compared to the next-to-last round)? Why or why not? Was the result of this round surprising?
- (相較於倒數第二回合,你們在最後一回合的決策有沒有不同呢?有的 話又是為什麼呢?這回合其他組的決策有讓你感到驚訝之處嗎?)

- ➤ What happens if donations are revealed? (當資訊公開的時候發生甚麼事情?)
- ➤ [Irrigation Game] How will things change if groups took Ecoins from the pool 1-by-1? (灌溉賽局: 如果改成讓各組輪流一個個從公庫中拿走任何數量的Ecoin?)
- ➤ Are there other ways to promote donations? (有其他辦法鼓勵更多捐獻嗎?)