# Monopoly Requirements as Test Tables

by Mike Rieser

Dice

Die1	Die2	Total?
1	6	7
1	1	2
6	6	12

# 2 to 8 Players Can Play

# Scenario	Number of Player Tokens	Create?
Lower Bound	2	ОК
Upper Bound	8	ОК
Zero Players	-	Error
One Player	1	Error
Duplicate Tokens	Car, Car	Error
Too Many	9+	Error

### Initial Conditions – Location

Player	Location?
Shoe	GO
Car	GO
Horse	GO

# Play One Round

Player	Turns Played	Event	Turns Played?
Shoe	0	PlayRound	1
Car	0	PlayRound	1
Horse	0	PlayRound	1

# Player Movement

Player	Location (Start)	Move (Spaces)	Location?
Shoe	GO	7	Space 7
Car	Space 36	6	Space 2
Horse	GO	40	GO

## Initial Conditions – Money

Player	Cash?
Shoe	\$1,500
Car	\$1,500
Horse	\$1,500

### LandsOn or PassBy GO

#### **Test Per Facade**

Player	Location (Start)	Cash (Start)	Move (Spaces)	Cash?
Shoe	GO	\$1,500	10	\$1,500
Car	Space 36	\$1,500	6	\$1,700
Horse	GO	\$1,500	40	\$1,700

Player	Cash	Event	Cash?
Shoe	\$1,500	LandsOn	\$1,700
Car	\$1,500	PassBy	\$1,700

## LandsOn Go-To-Jail

#### **Test Per Facade**

Player	Location (Start)	Move (Spaces)	Location?
Shoe	Space 20	10	Jail
Car	Space 20	11	Space 31

Player	Event	Location?
Shoe	LandsOn	Jail
Car	PassBy	_

# Luxury-Tax

#### Test Per Facade

Player	Location	Total Worth	Move	Location?	Total Worth?
Shoe	Space 36	\$100	2	Luxury-Tax	\$25
Car	Space 36	\$75	2	Luxury-Tax	\$0
Hat	Space 36	\$25	2	Luxury-Tax	-\$50

Player	Total Worth	Event	Total Worth?
Shoe	\$100	LandsOn	\$25
Car	\$75	LandsOn	\$0
Hat	\$25	LandsOn	-\$50

### Income-Tax

#### Test Per Facade

Player	Location	Total Worth	Move	Location?	Total Worth?
Shoe	Space 2	\$4,000	2	Income-Tax	\$3,800
Car	Space 2	\$1,500	2	Income-Tax	\$1,350
Hat	Space 2	\$0	2	Income-Tax	\$0
Horse	Space 2	\$2,000	2	Income-Tax	\$1,800
Dog	Space 36	\$0	8	Income-Tax	\$180

Player	Total Worth	Event	Total Worth?
Shoe	\$4,000	LandsOn	\$3,800
Car	\$1,500	LandsOn	\$1,350
Hat	\$0	LandsOn	\$0
Horse	\$2,000	LandsOn	\$1,800
Dog	\$2,000	PassBy	\$2,000

### Income-Tax

#### Test Per Facade

Player	Location	Total Worth	Move	Location?	Total Worth?
Shoe	Space 2	\$4,000	2	Income-Tax	\$3,800
Car	Space 2	\$1,500	2	Income-Tax	\$1,350
Hat	Space 2	\$0	2	Income-Tax	\$0
Horse	Space 2	\$2,000	2	Income-Tax	\$1,800
Dog	Space 36	\$0	8	Income-Tax	\$180

Test Per Class

Player	Total Worth	Event	Total Worth?
Shoe	\$4,000	LandsOn	\$3,800
Car	\$1,500	LandsOn	\$1,350
Hat	\$0	LandsOn	\$0
Horse	\$2,000	LandsOn	\$1,800
Dog	\$0	PassBy	\$0

### Real Estate Data

Name	Location	Price	Rent	Color Group
Mediterranean Avenue	1	\$60	2	Purple
Baltic Avenue	3	\$60	4	Purple
Oriental Avenue	6	\$100	6	Light-Blue
Vermont Avenue	8	\$100	6	Light-Blue
Connecticut Avenue	9			Light-Blue
St. Charles Place	11	\$140		Violet
States Avenue	13	\$140		Violet
Virginia Avenue	14			Violet
St. James Place		\$180		Orange
Tennessee Avenue	18			Orange
New York Avenue	19			Orange

Name	Location	Price	Rent	Color Group
Kentucky Avenue	21	\$220	18	Red
Indiana Avenue	23	\$220	18	Red
Illinois Avenue	24	\$240	20	Red
Atlantic Avenue	26	\$260	22	Yellow
Ventnor Avenue	27	\$260	22	Yellow
Marvin Gardens	29	\$280	22	Yellow
Pacific Avenue	31	\$300	26	Green
North Carolina Avenue	32	\$300	26	Green
Pennsylvania Avenue	34	\$320	28	Green
Park Place	37	\$350	35	Dark-Blue
Boardwalk	39	\$400	50	Dark-Blue

### **Utilities Data**

Name	Location	Price
Electric Company	12	\$150
Water Works	28	\$150

#### **Utility Rent**

If 1 Utility owned, the rent is 4x the amount shown on the dice. If both Utilities owned, the rent is 10x the amount shown on the dice. (Do not roll again. It's the movement dice roll which is used.)

### Railroads Data

Name	Location	Price
Reading Railroad	5	\$200
Pennsylvania Railroad	15	\$200
B. & O. Railroad	25	\$200
Shortline Railroad	35	\$200

Number Player Owns	Rent?
1	\$25
2	\$50
3	\$100
4	\$200

# LandsOn Property

Space	Price	Rent
Baltic Ave	\$60	\$4

Player	Property Owner	Player Cash	Owner Cash		Property Owner?	Player Cash?	Owner Cash?
Shoe	_	\$100	_	LandsOn	Shoe	\$40	\$40
Shoe	Shoe	\$100	\$100	LandsOn	Shoe	\$100	\$100
Shoe	Dog	\$100	\$10	LandsOn	Dog	\$96	\$14