



Circus Game

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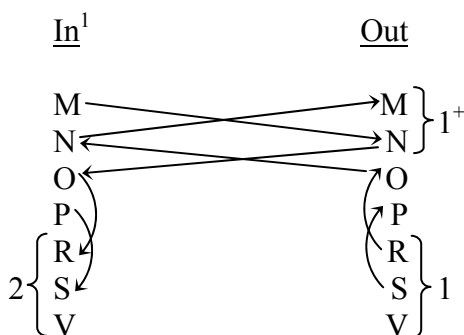
Questions 1–8

Setup:

- at least four clowns selected from seven: M N O P R S V

Conditions:

- #1: 2 of R, S, and V are selected
- #2: either N or O must be selected
- #3: $O \longrightarrow R$; $\sim R \longrightarrow \sim O$ (contrapositive)
- #4: $P \longrightarrow S$; $\sim S \longrightarrow \sim P$ (contrapositive)
- #5: $M \longrightarrow \sim N$; $N \longrightarrow \sim M$ (contrapositive)



		#1	#2	#3	#4
In	Out	In	Out	In	Out
	M/N	R	N/M	S	M
	R/S/V	S	V	R/V	V/R
		M/N		N	O
		O		P	
		P			R
					S
					V

Overview:

The setup and conditions allow us to infer quite a bit. The first and fifth conditions tell us that we must have at least two out: at least one of M and N and one of R, S, and V. We therefore know that the maximum number of clowns selected is 5.

¹ Visit Manhattan LSAT (<http://www.manhattanlsat.com>) to learn more about using this diagram.



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Mold #1: If 5 are selected, both O and P must be among them, due to the fifth condition.

Applying the third and fourth conditions, R and S must also be selected.

Mold #2: If 3 clowns are not selected, and P is one of them, O has to be selected. Due to the third condition, R must also be selected.

Mold #3: If 3 clowns are not selected, and O is one of them, P has to be selected. With O out, N has to be in (contrapositive of the second condition). Due to the fourth condition, we also know that S is selected.

Mold #4: If the third clown that is not selected is either M or N, we know that both M and N are out. O and P therefore must be selected, triggering the third and fourth conditions, and we know that R and S are also selected, and V is not selected.

These four molds represent the nine possible solutions to the game.

1. **(A)** S could only be out under mold #2. According to the mold, O must be selected, and A is correct.
2. **(E)** Checking the answer choices against the mold #1 reveals that P must be selected, and choice E is therefore correct.
3. **(C)** This draws us to mold #3, and we know that S is selected.
4. **(C)** This could only be true of mold #2, and C is the only possibility among the choices.
5. **(B)** Looking at the third mold, we know that P must be selected.
6. Check the choices against the conditions:
 - (A) Correct**
 - (B)** violates the third condition
 - (C)** violates the fifth condition
 - (D)** violates the second condition
 - (E)** violates the fourth condition
7. **(D)** Choice E is not possible, since we can't have 4 out. Since all four of the other choices have 2 out, we can check them against mold #1. Only choice D is possible.
8. We can check the choices against the molds:
 - (A)** see mold #4
 - (B)** see mold #3
 - (C)** see mold #2
 - (D) Correct**
 - (E)** see mold #2