SYLLOGISMS

Indefinite (Not 100%)

All **A** are **B**

Some **A** are **B**

Some **A** are not **B**

Definite (100%)

- No **A** is **B**

- Only **A** are **B**

(Means all **B** are **A** and **"B" does not belong to anything another than "A"**)

Let take A, B and C.

A   B   C

1) All A are B
All **B** are **C**
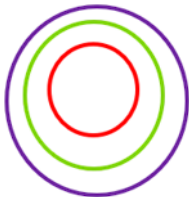
2) Some A are B
Some **B** are **C**

A B C
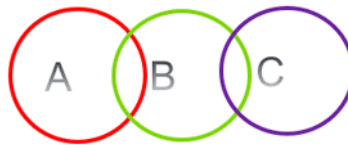
3) Some A are not B
Some **B** are not **C**

A ✕ B ✕ C
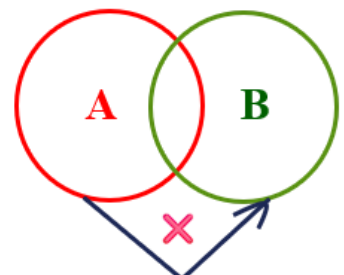
4) No A is B
No **B** is **C**

A ✕ B ✕ C

5) Only A are B

B
A
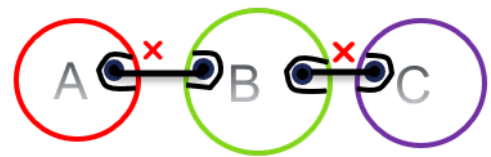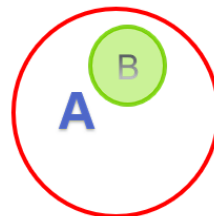
6) Only a few A are B

A   B
✕

"Rules for Disproving a Conclusion in Syllogism"

How to Break a Conclusion:

- If a conclusion is even **1% positive**, you must prove it **100% negative** to break it.
- If a conclusion is even **1% negative**, you must prove it **100% positive** to break it.

Possibility in Syllogism:

- If two statements **do not have a negative relationship**, then a **possibility** condition may **exist**, depending on their logical structure
- If there is a possibility, we **cannot decide** whether the conclusion is right or wrong.
- Not considering a conclusion means we **cannot confirm or reject** it, but it does not mean it is correct.

Complementary Pairs in Syllogism (Either-Or Condition)

- Both conclusions must be **individually false** (neither should be 100% correct).
- The conclusions must be **opposite** (one affirms, the other denies)
- If there is a possibility and both statements talk about the same thing in opposite ways, the answer is "**Either-Or**"

Some → No   Some Not → All

(A) Only (1) conclusion follows
(B) Only (2) conclusion follows
(C) Either (1) or (2) follows
(D) Neither (1) nor (2) follows
(E) Both (1) and (2) follow

1) **Statements:** All men are girls.
Some girls are students.

   Conclusions:

       I.   All girls are men.
       II.   Some girls are not students

2) **Statements:** All garden are schools.
All schools are colleges.

  Conclusions: I. All gardens are colleges.
              II. Some gardens are not colleges.

3) **Statements:** All Lotus are flowers.
No Lily is a Lotus.

  Conclusions: I. No Lily is flowers.
             II. Some Lilies are flowers.

4) **Statements:** Some fruits are vegetables.
Some vegetables are junk food.

  Conclusions: I. Some junk foods are vegetables.
             II. Some junk foods are fruits.

5) Statements:

All boys are good

Some good are Girls

No Girls is Hat

Conclusions:

1) All boys are Hat is a possibility

II) Some good are Not Hat

III) All boys are good is a possibility

6) Statements:

All anthem are songs.

Some songs are not sweet.

Some sweet is movie.

Conclusions:

I. Some movie is not Songs.

II. At least some anthem being sweet is a possibility.

7) Statement:

No white is Blue

All Blue are orange

Some oranges are Green

Some Green are yellow

Conclusion:

1) Some Green are Blue

II) All orange can be white

III) All yellow are orange

8) Statements:

At least Some math's is Science

All Science are Book

Only a few Books are history

Conclusions:

I. No Math's is history

II. Some Science are history

III) No Science are history

9) Statements:

Only a few Dells are HP.

All HPs are Asus.

No Asus is Lenovo.

Conclusions:

I. No Lenovo is HP.

II. No Dell is Lenovo.

III. Some HPs are not Dell.

10) Statement:

All Bush are Plant

Some Plant are Tree

Conclusion:

i) All Bush are Tree

ii) No Bush are Tree

11) Statements:

Some kite is bird.

Only a few birds is animal.

Only animals are mammals.

Conclusions:

(I) No kite is mammal.

(II) All kites can be birds.

12) Statement:

No white is Blue

All Blue are orange

Some oranges are Green

Some Green are yellow

Conclusion:

1) Some Green are Blue

II) All orange can be white.

III) All yellow are orange

13) Statements:
Only a few engines are plugs.
No engine is socket.
Only a few sockets is rocket.
Only a few cakes is socket.

Conclusions:
I. Some engine is not rocket.
II. All rockets can never be engines

14) Statements:
Only a Few Cars are Bugatti.
All Bugatti are Luxury.
Some Ferraris are luxury.
No Ferrari is Bugatti.

Conclusions:
I. All Ferraris are Cars
II. Some Bugatti are Ferrari.

15) Statements:
Only a few History is Geography.
All Geography is English.
Only a few English are Gk.

Conclusions:
I. Some History is Gk.
II. No History is Gk