

Syllogism Part II

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Practice Problems with Solution

Question 1:

Statements:

Nail polish is cosmetic.

No cosmetic is a powder.

Some powders are medicine.

Conclusions:

1. Some powders are cosmetics.
2. Some medicines are nail polishes.
3. Some cosmetics are nail polishes.

A: Conclusion 1 follows

B: Only conclusion 2 follows

C: Only conclusion 3 follows

D: Both conclusions 1 and 2 follow

Question 2:

Statements:

1. All vegetables have gravy.

2. All lunch has vegetables.

Which of the following conclusions follow?

A: All lunch has gravy

B: All gravy has lunch

C: Both A and B

D: None of the above

Question 3:

Statements:

1. All words are letters.

2. All vowels are letters.

3. Some vowels are alphabets.

Conclusions:

1. No word is vowel.

2. Some letters being alphabets is a possibility.

- A:** Conclusion 1 follows
- B:** Conclusion 2 follows
- C:** Either 1 or 2 follows
- D:** Neither 1 nor 2 follows

Question 4:

Statements:

No pen is a cap.

Some caps are covers.

No cover is a pencil.

Conclusions:

1. At least some caps are pens.
2. Some covers not being caps is a possibility.

- A:** Conclusion 1 follows
- B:** Conclusion 2 follows
- C:** Either 1 or 2 follows
- D:** Neither 1 nor 2 follows

Question 5:

Statements:

Some benches are walls.

All walls are houses.

No bench is jungle.

No house is road.

Conclusions:

1. No road is a wall.
2. Some walls are not jungles.
3. Some jungles are not houses.

4. No bench is road.

- A:** Only 2 and 3 follow
- B:** Only 1 follows
- C:** Only 1, 2 and 3 follows
- D:** Only 1 and 2 follow

Question 6:

Statements:

All trees are plants.

All houses are trees.

Some pots are plants.

All tools are plants.

Conclusions:

1. Some plants are not houses.
2. Some tools being trees is a possibility.
3. All pots are tools is a possibility.
4. All houses are tools is a possibility.

- A:** Only 3 and 4 follows
- B:** Only 2, 3 and 4 follows
- C:** Only 1 and 4 follows
- D:** All follows

Question 7:

Statements:

All horses are goats.

Some goats are dogs.

No dog is cat.

Some cats are tigers.

Conclusions:

1. No cat is goat.
2. Some goats are not cats.
3. All dogs are horses is a possibility.
4. All dogs are tigers is a possibility.

- A:** Either 1 or 4 follow.
- B:** Only 3 follows.
- C:** All follows
- D:** Only 2 and 4 follows.

Question 8:

Statements:

All pens are chalks.

All chairs are chalks.

Conclusions:

1. Some pens are Chalks.
2. Some chalks are pens.

- A:** if conclusion 1 follows
- B:** if conclusion 2 follows
- C:** if either conclusion 1 or 2 follows
- D:** if neither conclusion 1 nor 2 follows

Question 9:

Statements:

Every Minister is a student.

Every student is inexperienced.

Conclusions:

1. Every Minister is inexperienced.
2. Some in experienced are students.

- A:** if conclusion 1 follows
- B:** if conclusion 2 follows
- C:** if either conclusion 1 or 2 follows
- D:** if both conclusion 1 and 2 follows

Question 10:

Statements:

Some Kings are queens.

All queens are beautiful.

Conclusions:

1. All kings are beautiful.

2. All queens are kings

A: if conclusion 1 follows

B: if conclusion 2 follows

C: if either conclusion 1 or 2 follows

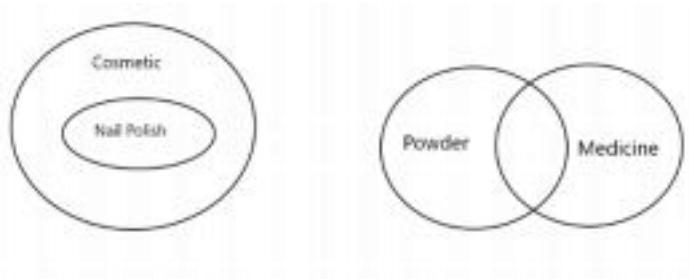
D: if neither conclusion 1 nor 2 follows

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Answers and Solutions

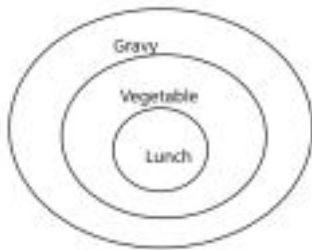
1:- C

Solution: Clearly, only some nail polishes are cosmetics, so conclusion 3 follows.



2:- A

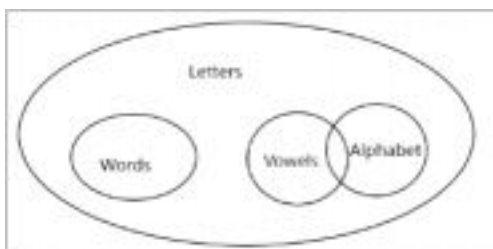
Solution:



Clearly, all lunch has gravy follows.

3:- B

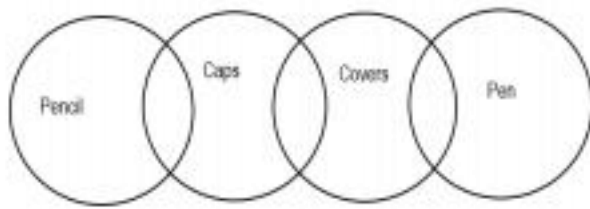
Solution:



Words are formed from letters so, from statements 1 and 2, there is a possibility of some words being vowel, so conclusion 1 does not follow. From statements 2 and 3, conclusion 2 follows.

4:- B

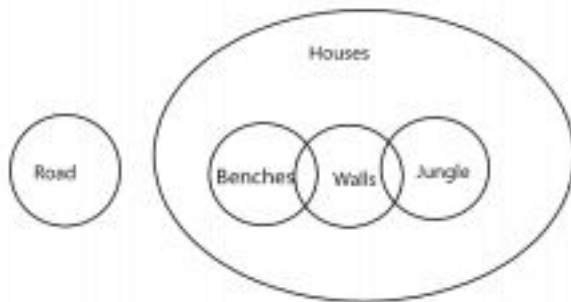
Solution:



From statement 1, No pen is a cap, conclusion 1 does not follow. Clearly, some covers which are not caps is a possibility, so conclusion 2 follows.

5:- D

Solution:



1- is true because no house is a road.

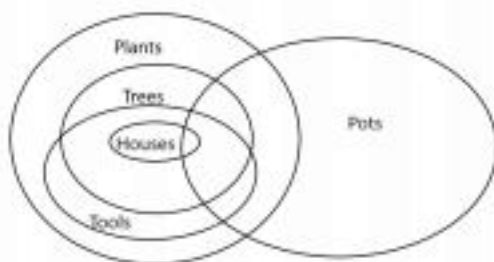
2- All walls are jungles is not a possibility, so 2 follows.

3 – All jungles are houses is a possibility, 3 does not follow.

4 – is true as no bench is a road.

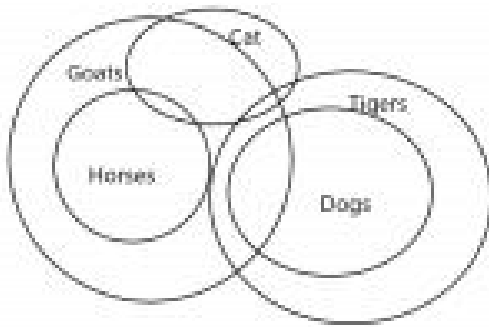
6:- B

Solution: Some plants are not houses is a possibility, so 1 follows. 2 follows as some tools being trees is a possibility. 4 is also a possibility.



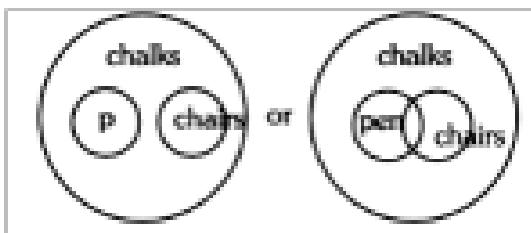
7:- D

Solution: 1 is not definite. All goats are cats is not a possibility, so 2 follows. 4 is also a possibility.



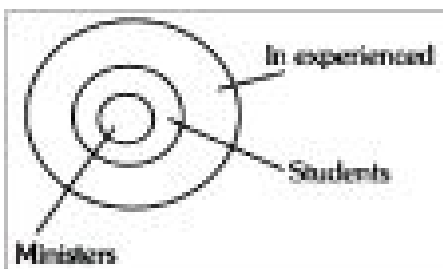
8:- B

Solution: Since the middle term 'chalks' is not distributed even once in the premises, no definite conclusion follows. However, 2 is the converse of the first premise and so it holds.



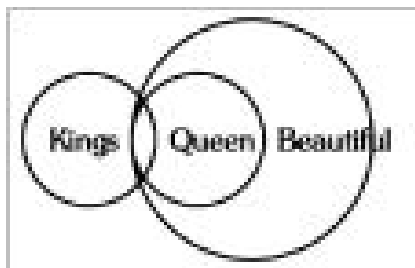
9:- D

Solution: 'Every' is equivalent to 'All'. Thus, since both the premises are universal and affirmative, the conclusion must be universal affirmative and should not contain the middle term. So, 1 follows. 2 is the converse of the second premise and thus it also holds.



10:- D

Solution: Since one premise is particular, the conclusion must be particular. So, neither 1 nor 2 follows.



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