

# VENN DIAGRAMS

## Introduction:

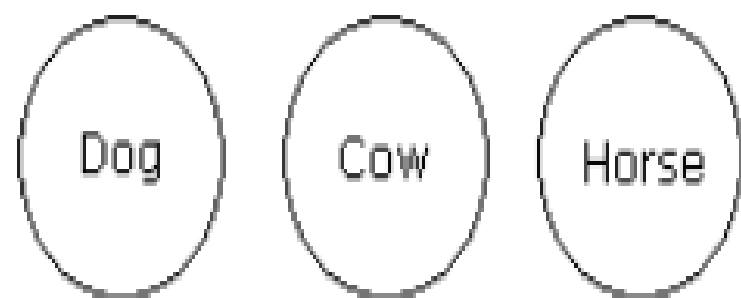
The main aim of this section is to test your ability about the relation between some items of a group by diagrams.

In these questions some figures of circles and some words are given. You have to choose a figure which represents the given words.

## Example 1:

If all the words are of different groups, then they will be shown by the diagram as given below.

Dog, Cow, Horse

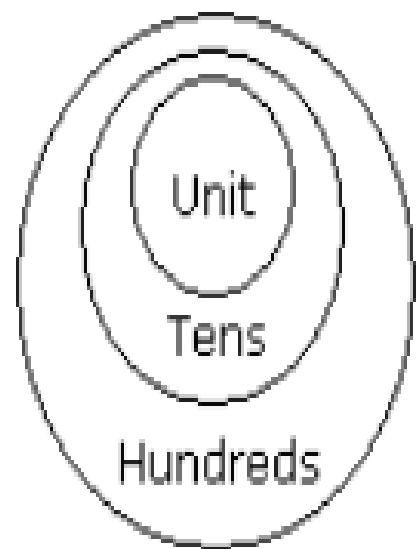


All these three are animals but of different groups, there is no relation between them. Hence they will be represented by three different circles.

## Example 2:

If the first word is related to second word and second word is related to third word. Then they will be shown by diagram as given below.

Unit, Tens, Hundreds

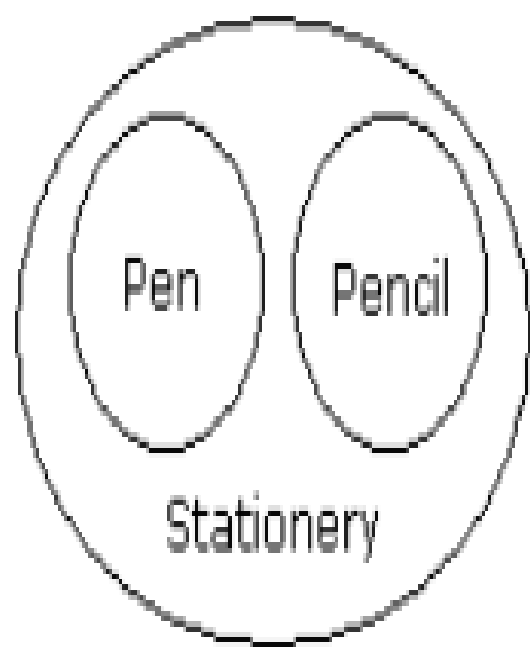


Ten units together make one Tens or in one tens, whole unit is available and ten tens together make one hundreds.

### Example 3:

If two different items are completely related to third item, they will be shown as below.

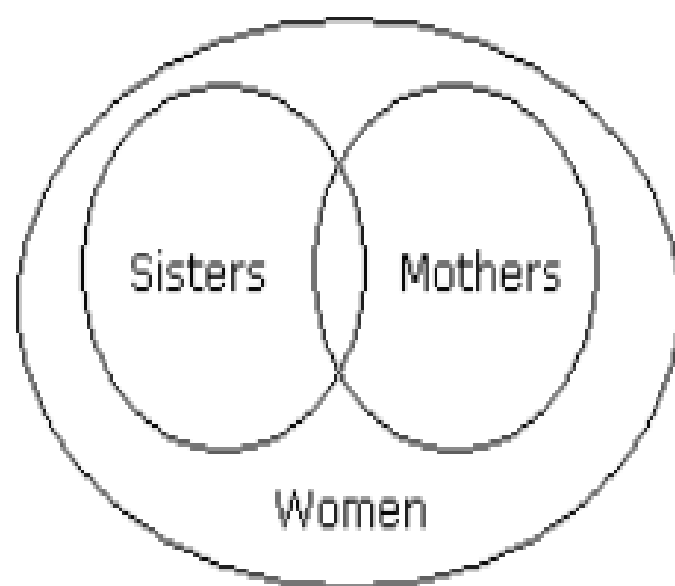
Pen, Pencil, Stationery



#### Example 4:

If there is some relation between two items and these two items are completely related to a third item they will be shown as given below.

Women, Sisters, Mothers

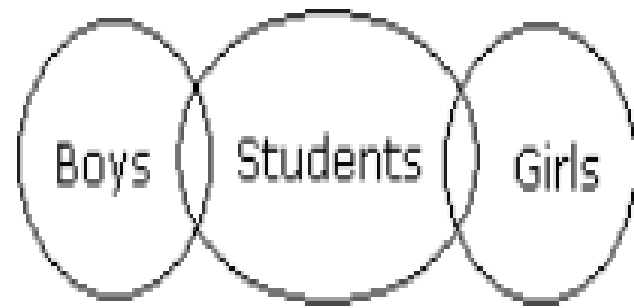


Some sisters may be mothers and vice-versa. Similarly some mothers may not be sisters and vice-versa. But all the sisters and all the mothers belong to women group.

### Example 5:

Two items are related to a third item to some extent but not completely and first two items totally different.

Students, Boys, Girls

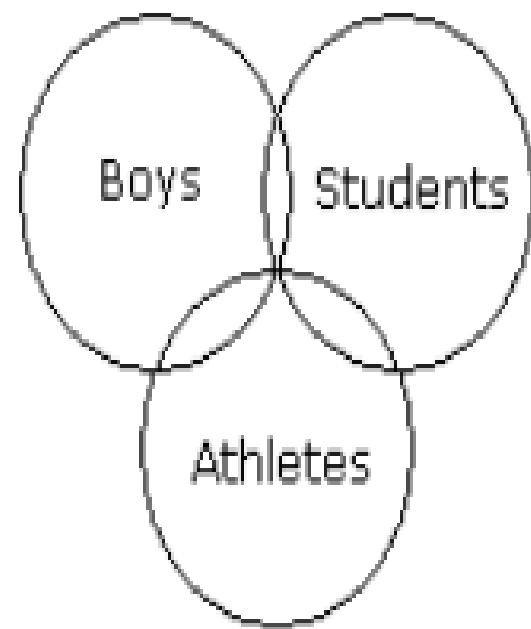


The boys and girls are different items while some boys may be students. Similarly among girls some may be students.

## Example 6:

All the three items are related to one another but to some extent not completely.

Boys, Students, Athletes



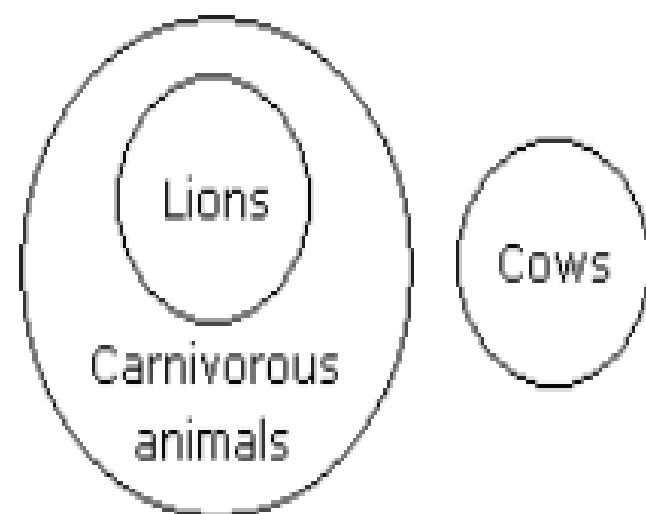
Some boys may be students and vice-versa. Similarly some boys may be athletes and vice-versa. Some students may be athletes and vice-versa.



### Example 7:

Two items are related to each other completely and third item is entirely different from first two.

Lions, Carnivorous, Cows

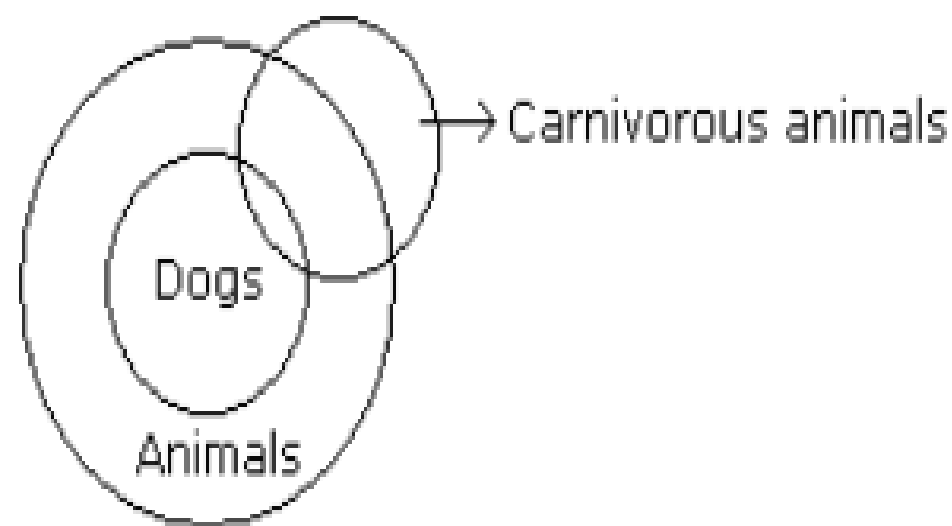


All the lions are carnivorous but no cow is lion or carnivorous.

### Example 8:

First item is completely related to second and third item is partially related to first and second item.

Dogs, Animals, Flesh-eaters

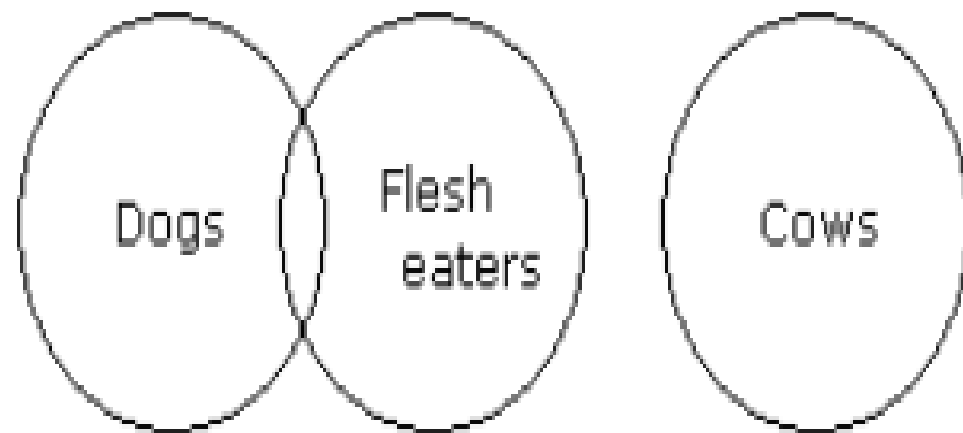


All the dogs are belonging to animals but some dogs are flesh eater but not all.

### Example 9:

First item is partially related to second but third is entirely different from the first two.

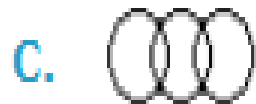
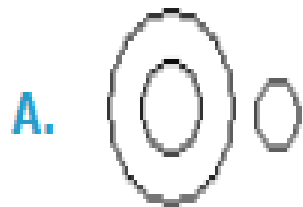
Dogs, Flesh-eaters, Cows



Some dogs are flesh-eaters but not all while any dog or any flesh-eater cannot be cow.

# Question

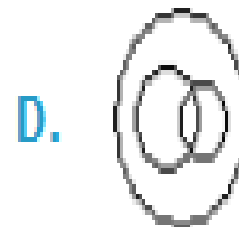
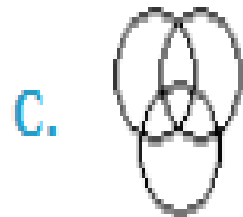
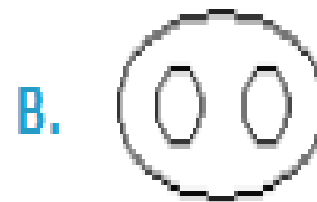
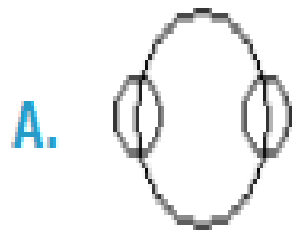
Which of the following diagrams indicates the best relation between Travelers, Train and Bus ?



- **Answer:** Option **C**
- **Explanation:**
- Bus and Train are different from each other but some travelers travel by bus and some travel by train.

# Question

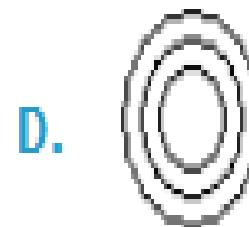
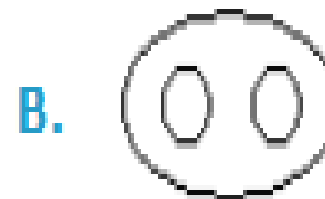
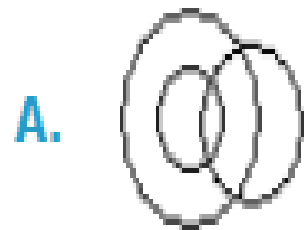
Which of the following diagrams indicates the best relation between Profit, Dividend and Bonus ?



- **Answer: Option B**
- **Explanation:**
- Bonus and Dividend are different from each other. But both these are parts of profit.

# Question

Which of the following diagrams indicates the best relation between Women, Mothers and Engineers ?

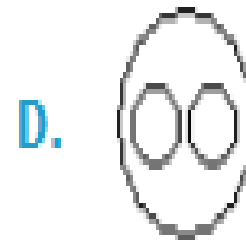
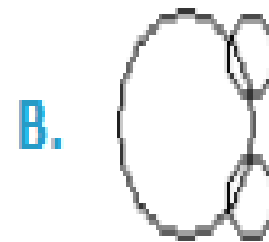
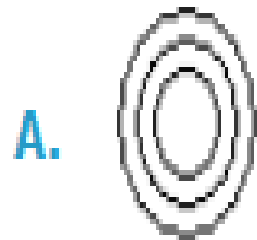




- **Answer: Option A**
- **Explanation:**
- All mothers are women and some mothers and some women may be engineers.

# Question

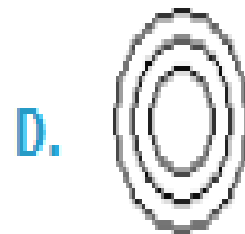
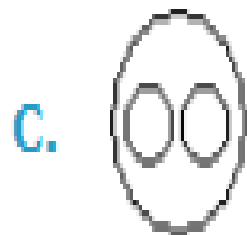
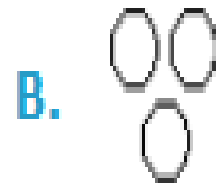
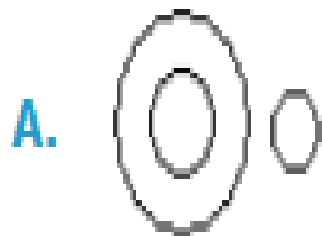
Which of the following diagrams indicates the best relation between Factory, Product and Machinery ?



- **Answer:** Option **D**
- **Explanation:**
- Product and Machinery are different from each other but both are found in Factory.

# Question

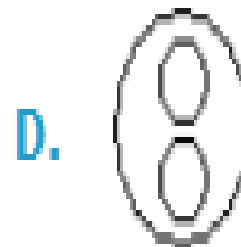
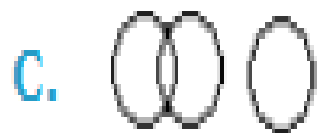
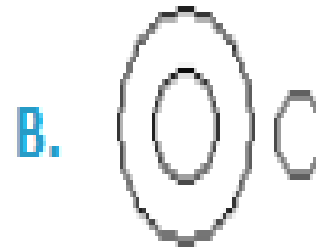
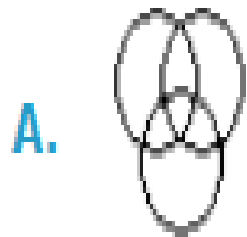
Which of the following diagrams indicates the best relation between Author, Lawyer and Singer ?



- **Answer:** Option **B**
- **Explanation:**
- All the three are different professions.

# Question

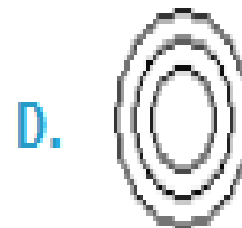
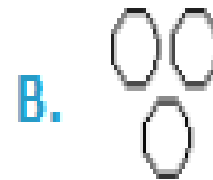
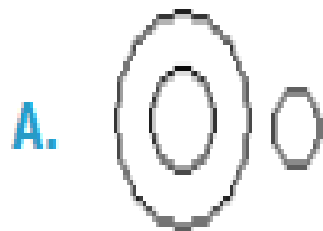
Which of the following diagrams indicates the best relation between Judge, Thieves and Criminals ?



- **Answer:** Option **B**
- **Explanation:**
- All the thieves are criminals while judge is different from these.

# Question

Which of the following diagrams indicates the best relation between India, Haryana and World ?

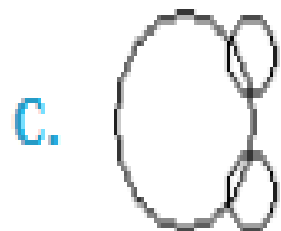
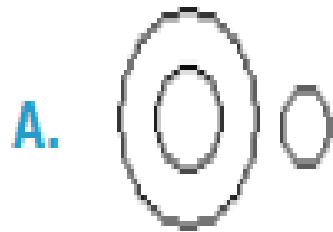




- **Answer: Option D**
- **Explanation:**
- Haryana is in India and India is in the World.

# Question

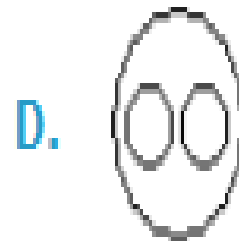
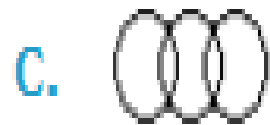
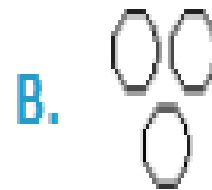
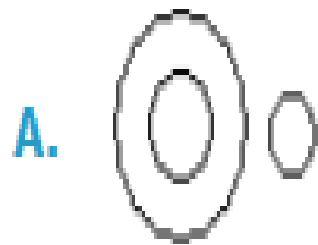
Which of the following diagrams indicates the best relation between Pigeon, Bird and Dog ?



- **Answer: Option A**
- **Explanation:**
- All the pigeons are birds while dog is different from these.

# Question

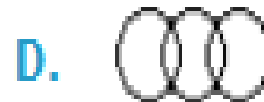
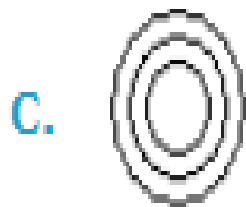
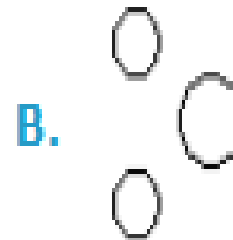
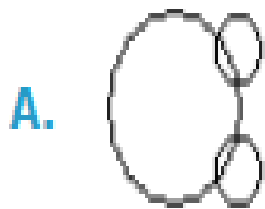
Which of the following diagrams indicates the best relation between Earth, Sea and Sun ?



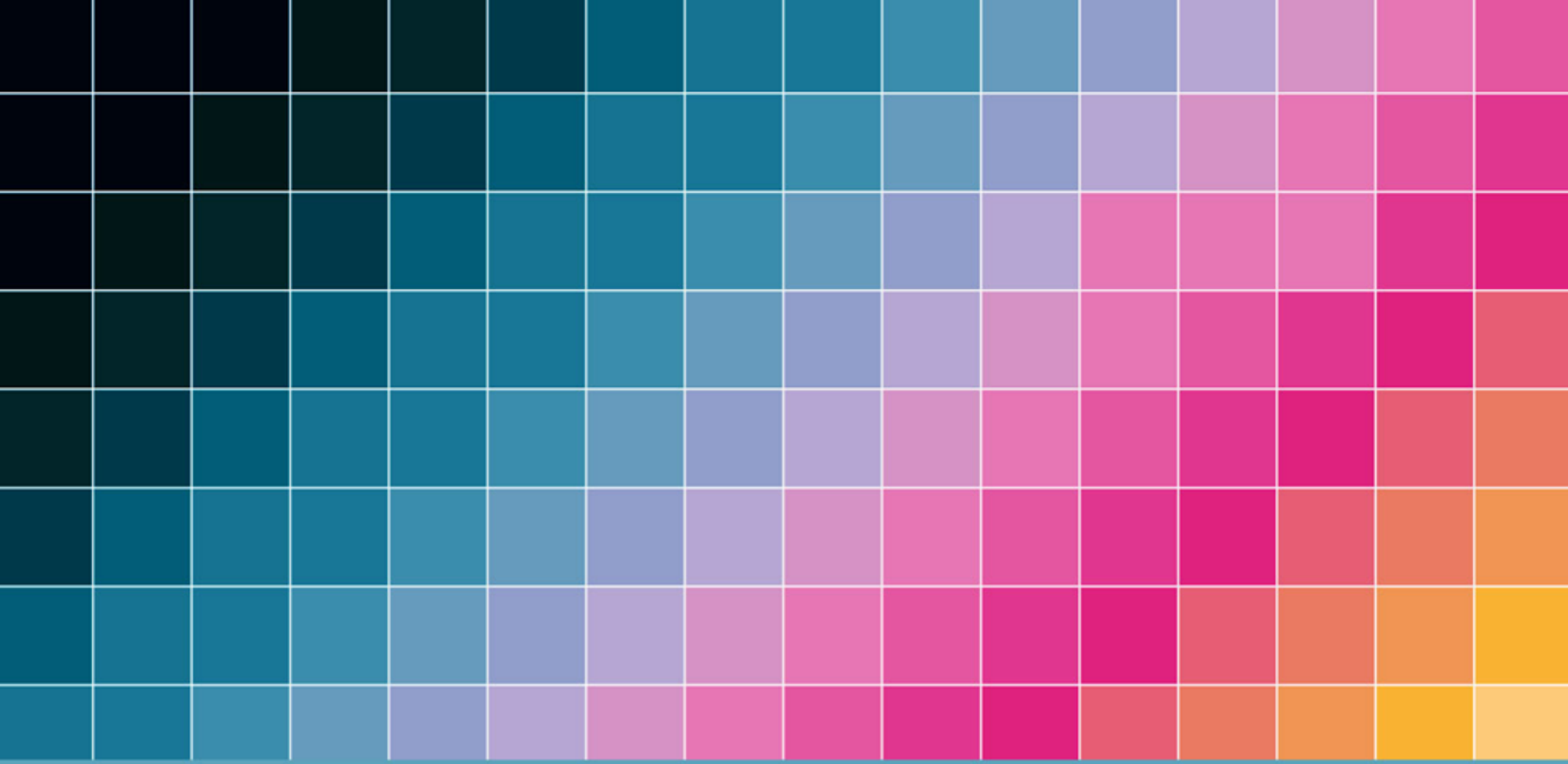
- **Answer:** Option A
- **Explanation:**
- Sea is a part of Earth while Sun is different from these two.

# Question

Which of the following diagrams indicates the best relation between Hockey, Football and Cricket ?



- **Answer:** Option **B**
- **Explanation:**
- All these three games are different from each other.



# LOGIC





- The questions which are asked in this section contain two or more statements and these statements are followed by two or more conclusions.
- You have to find out which of the conclusions logically follow from the given statements. The statements have to be taken true even if they seem to be at variance from the commonly known facts.

- For such questions, you can take the help of ***Venn Diagrams***. On the basis of the given statements, you should draw all the possible diagrams, and then derive the solution from each of these diagrams separately. Finally, the answer common to the all the diagrams is taken.

# Question

## ***Statements:***

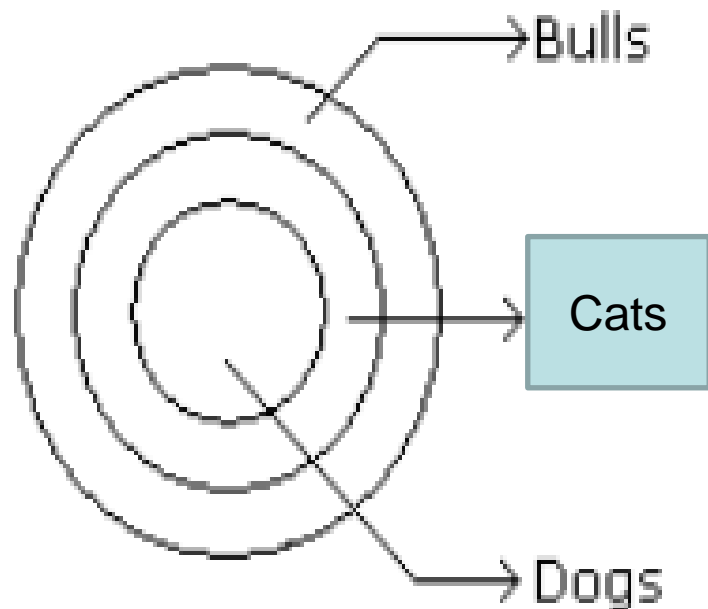
1. All dogs are cats.
2. All cats are bulls.

## ***Conclusions:***

1. Some dogs are not bulls.
2. Some bulls are dogs.
3. All bulls are dogs.
4. All dogs are bulls.

# Solution

On the basis of both statements, the following one diagram is possible.



From the diagram it is clear that (2) and (4) conclusions logically follow.

# Question

## **Statements:**

1. Some actors are singers.
2. All the singers are dancers.

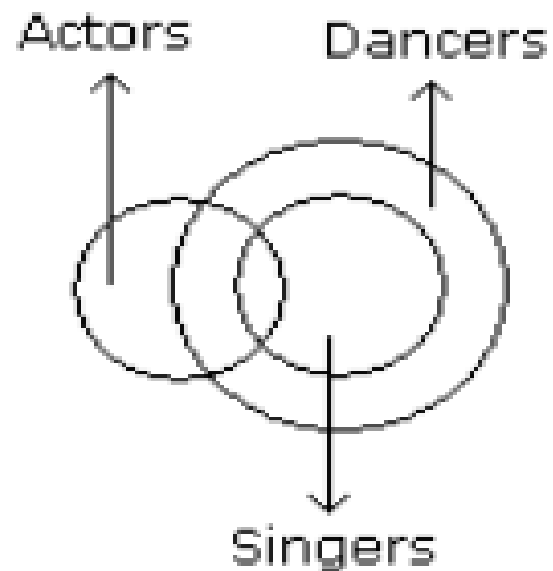
## **Conclusions:**

1. Some actors are dancers.
  2. No singer is actor.
- 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

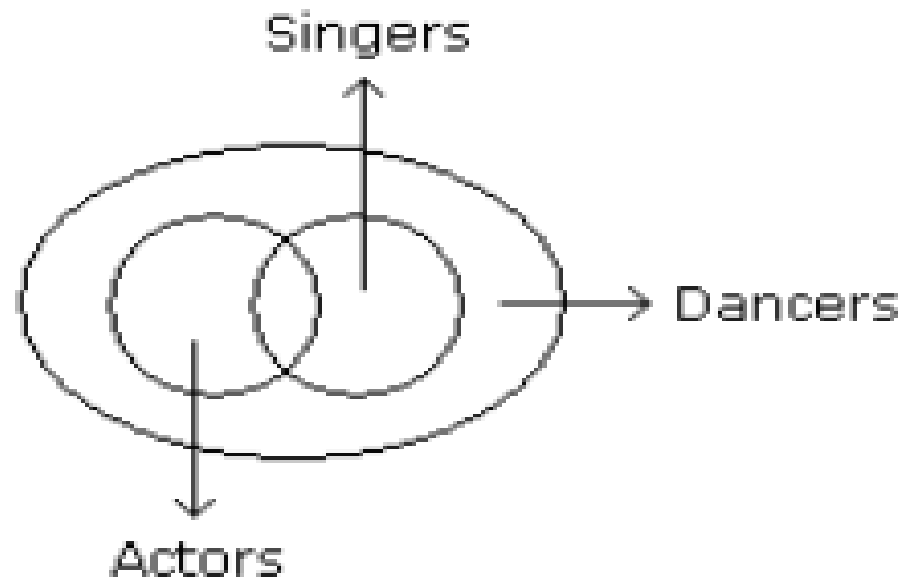
# Solution

**Answer:** Option **A**

**Explanation:**



(or)



Only (1) follows.

# Question

## **Statements:**

1. Some papers are pens.
2. All the pencils are pens.

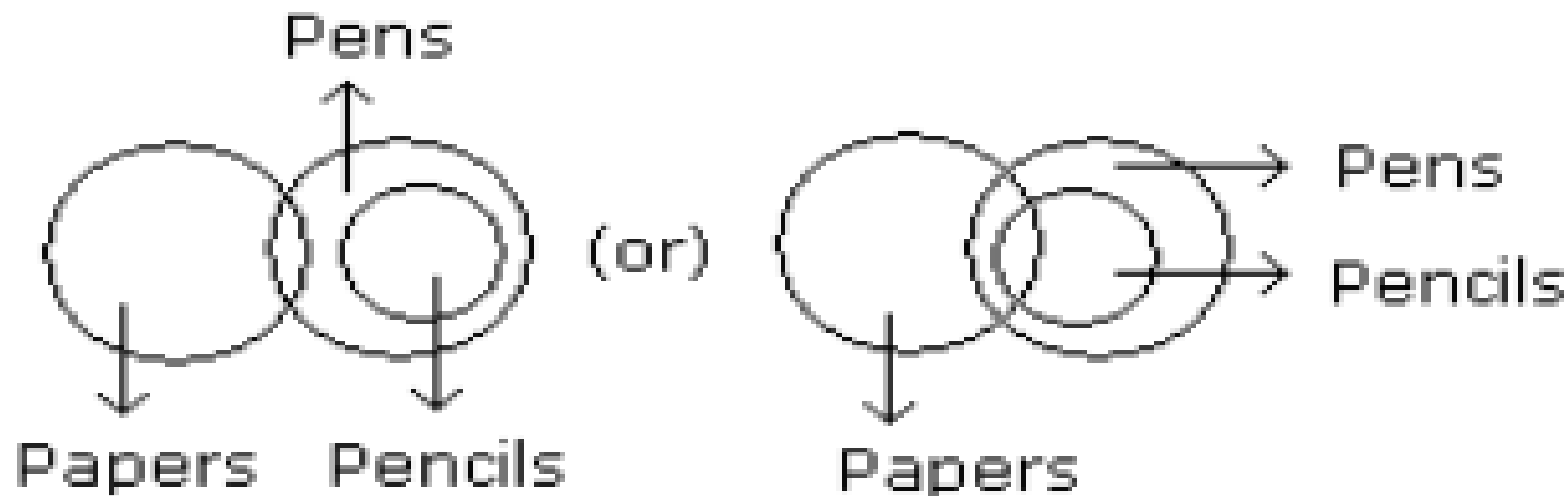
## **Conclusions:**

1. Some pens are pencils.
  2. Some pens are papers.
- 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

# Solution

**Answer:** Option E

**Explanation:**



Both (1) and (2) follow.



# Question

## **Statements:**

1. No door is dog.
2. All the dogs are cats.

## **Conclusions:**

1. No door is cat.
2. No cat is door.
3. Some cats are dogs.
4. All the cats are dogs.

A. Only (2) and (4)

C. Only (3) and (4)

E. All the four

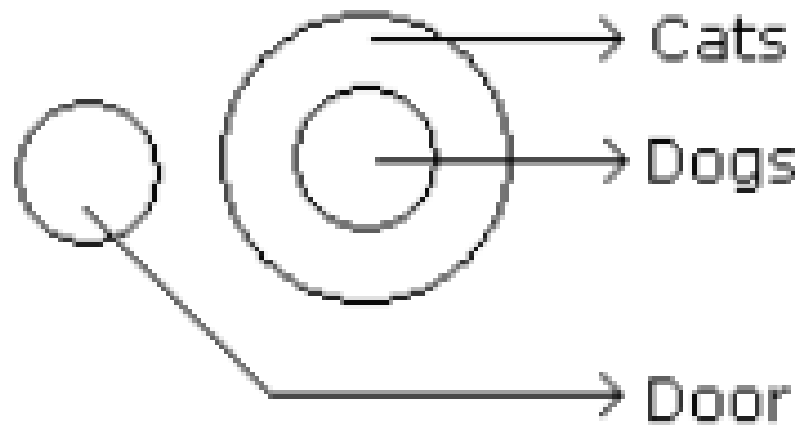
B. Only (1) and (3)

D. Only (3)

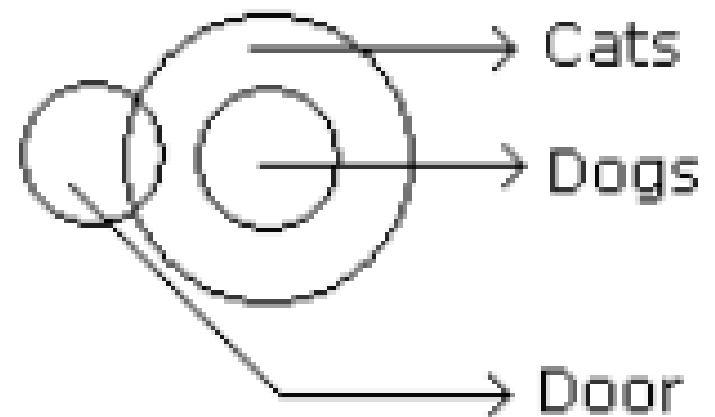
# Solution

**Answer:** Option **D**

**Explanation:**



(or)



Only (3) follows.

# Question

## **Statements:**

1. All the locks are keys.
2. All the keys are bats.
3. Some watches are bats.

## **Conclusions:**

1. Some bats are locks.
2. Some watches are keys.
3. All the keys are locks.

A. Only (1) and (2)

C. Only (2)

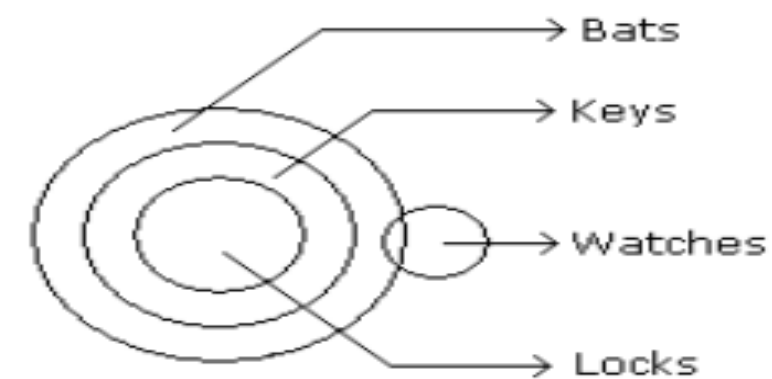
B. Only (1)

D. Only (1) and (3)

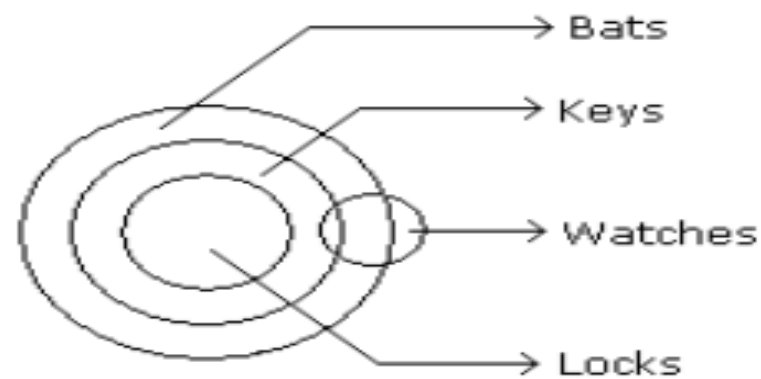
# Solution

**Answer:** Option **B**

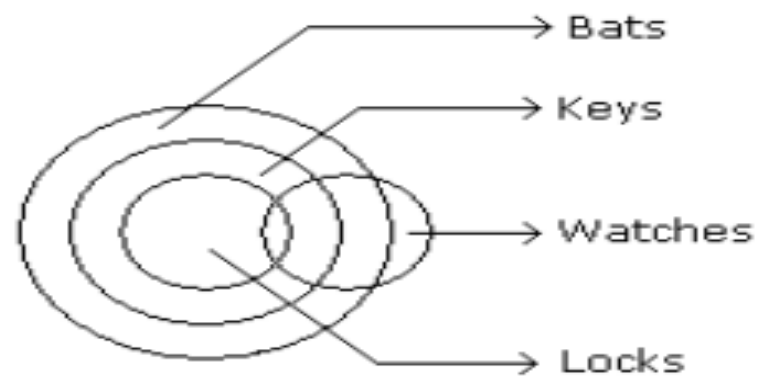
**Explanation:**



(or)



(or)



Only (1) follows.

*THANK YOU*