

UOT Logical Reasoning Test

1. Look at this series: 2, 1, (1/2), (1/4), ... What number should come next?

- A. (1/3)
- B. (1/8)
- C. (2/8)
- D. (1/16)

Answer: Option B

This is a simple division series; each number is one-half of the previous number.

In other terms to say, the number is divided by 2 successively to get the next result.

$$4/2 = 2$$

$$2/2 = 1$$

$$1/2 = 1/2$$

$$(1/2)/2 = 1/4$$

$$(1/4)/2 = 1/8 \text{ and so on.}$$

2. Odometer is to mileage as compass is to

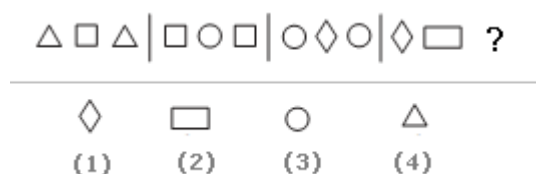
- A. Speed
- B. Hiking
- C. Needle
- D. Direction

Answer: Option D

Explanation:

An odometer is an instrument used to measure mileage. A compass is an instrument used to determine direction. Choices a, b, and c are incorrect because none is an instrument.

3.



- A. 1
- B. 2

- C. 3
- D. 4

Answer: Option A

Explanation:

Look at each segment. You will notice that in each, the figure on the right and the figure on the left are the same; the figure in between is different. To continue this pattern in the last segment, the diamond on the left will be repeated on the right. Choice a is the only possible answer.

4. Statements: Some actors are singers. All the singers are dancers.

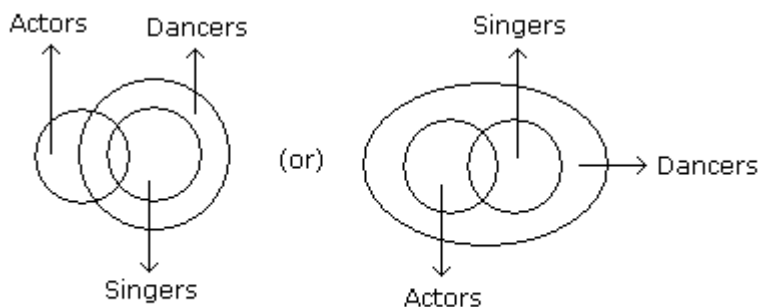
Conclusions:

- A. Some actors are dancers**
- B. 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

Answer: Option A

Explanation:



Only (1) follows.

5. Statements: All the harmoniums are instruments. All the instruments are flutes.

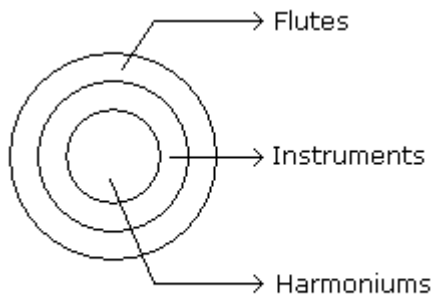
Conclusions:

- A. All the flutes are instruments.
- B. All the harmoniums are flutes

- 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

Answer: Option B

Explanation:



Only (2) follows.

6. If $A + B$ means A is the mother of B; $A - B$ means A is the brother B; $A \% B$ means A is the father of B and $A \times B$ means A is the sister of B, which of the following shows that P is the maternal uncle of Q?

- A. $Q - N + M \times P$
- B. $P + S \times N - Q$
- C. $P - M + N \times Q$
- D. $Q - S \% P$

Answer: Option C

Explanation:

$P - M \rightarrow$ P is the brother of M

$M + N \rightarrow$ M is the mother of N

$N \times Q \rightarrow$ N is the sister of Q

Therefore, P is the maternal uncle of Q.

7. Deepak said to Nitin, "That boy playing with the football is the younger of the two brothers of the daughter of my father's wife." How is the boy playing football related to Deepak?

- A. Son
- B. Brother

- C. Cousin
- D. Brother-in-law

Answer: Option B

Explanation:

Father's wife → mother. Hence, the daughter of the mother means sister and sister's younger brother means brother. Therefore, the boy is the brother of Deepak.

8. One morning Udai and Vishal were talking to each other face to face at a crossing. If Vishal's shadow was exactly to the left of Udai, which direction was Udai facing?

- A. East
- B. West
- C. North
- D. South

Answer: Option C

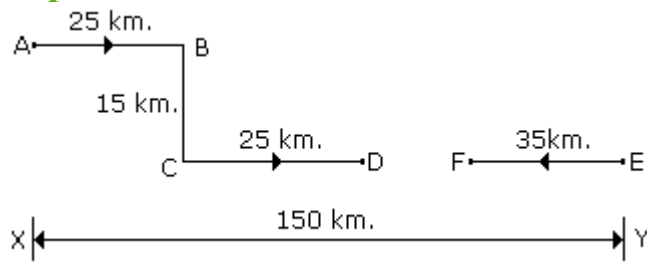
Explanation:



9. Two cars start from the opposite places of a main road, 150 km apart. First car runs for 25 km and takes a right turn and then runs 15 km. It then turns left and then runs for another 25 km and then takes the direction back to reach the main road. In the mean time, due to minor break down the other car has run only 35 km along the main road. What would be the distance between two cars at this point

- A. 65 km
- B. 75 km
- C. 80 km
- D. 85 km

Answer: Option A

Explanation:

$$\begin{aligned}
 \text{Required distance} &= DF \\
 &= 150 - (25 + 25 + 35) \\
 &= 150 - 85 \\
 &= 65 \text{ km.}
 \end{aligned}$$

10. A, B, C, D and E are sitting on a bench. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together. In which position A is sitting ?

- Between B and D
- Between B and C
- Between E and D
- Between C and E

Answer: Option B

Explanation:

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E B A C D

Therefore, A is sitting in between B and C.