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CAT Model Paper 9 Questions and Answers with Explanation Part 4

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35. Watchman A has worked more night shifts in a row than Watchman B, who has worked five. Watchman C has worked fifteen night shifts in a row, more than Watchman A and Watchman B combined. Watchman D has worked eight night shifts in a row, less than Watchman A. How many night shifts in a row has Watchman A worked?

- (A) Eight
- (B) Nine
- (C) Ten
- (D) Eleven

Answer: B

Solution:

Watchman A has worked more shifts in a row than Watchman D;

Therefore, Watchman A has worked more than eight shifts.

The number of Watchman A's shift plus the number of B's shifts (five) cannot equal fifteen or more, the number of Watchman C's shifts. Therefore, Watchman A has worked nine shifts in a row ($5 + 9 = 14$).

36. Which one of the following is an acceptable listing of films to show this week?

- (A) Shout, Mist, Treak, QuePasa, Fly, and jealousy
- (B) Shout, Mist, Trek, Fly, Jealousy, and AbraCadabra
- (C) QuePasa, Lessons, Mist, shout, AbraCadabra, and Trek
- (D) Shout, Lessons, Mist, Trek, Fly, and jealousy

Answer: B

Solution:

Only Choice b contains no more than two R-rated movies (Shout and Mist) , at least one G and one PG (Fly, AbraCadabra, and jealousy) , and only one foreign film (Mist) .

37. Answer the question based on the information given below

A cinema complex show with six movie theater never shows the same movie in more than one theater. None of the theaters is the same size as any other, with number 1 being the largest and going in order to number 6, the smallest. The cinema complex also has the following rules:

It will never show more than two R-rated movies at once.

It will never show more than one foreign film at a time and never in the biggest theater.

The cinema has the following films to choose from this particular week:

Shout, rated R

QuePasa, a Spanish film rated PG

AbraCadabra, rated G

Lessons, rated R

Jealousy, rated PG

Mist, a Swedish film rated R

Trek, rated NC-17

Fly, rated G

Question:

Which one of the following is an acceptable listing of films to show this week?

38. If shout starts at 8: 30, Mist at 8: 15, Trek at 8: 00, Fly at 7: 45, jealousy at 7: 30, and AbraCadabra at 7: 15, and each movie is exactly two hours long, at time will the next showing of Trek start?

(A) 10: 00

(B) 10: 15

(C) 10: 30

(D) 10: 45 (Length of each movie is exactly 2 hours)

Answer: C

Solution:

The first showing of Trek will be over at 10: 00 Then the employees will need 20 minutes to clean the theater, which is 10: 20. Since the movies always start on the quarter hour, the second showing of Trek will be 10: 30.

39. The movies this week are showing in the following theaters:

Theatre 1 Shout

Theatre 2 Trek

Theatre 3 AbraCadabra

Theatre 4 Jealousy

Theatre 5 Fly

Theatre 6 Mist

Shout is doing the most business, followed by Trek and, to the management's surprise, mist. The management want to move Mist to a larger theater. Which theater is most logical?

(A) Theater 1

(B) Theater 2

(C) Theater 3

(D) Theater 5

Answer D

Solution:

Since shout is doing the most business and Trek the second most, they should remain in the two largest theaters Also, the theater never shows a foreign film in the largest theater. Theaters 3 and 4 must show the movies that are rated G and PG, so the movie that are there must stay there. The most logical choice is to put Mist in theater 5 and Fly in theater 6.

40. Each item is followed by two statements, A and B. Answer each question using the following instructions.

Question:

In a certain perfume mixture consisting of only two flavors, for every 3 milliliters of Flavour A, there are 7 milliliters of Flavour B. After 10 milliliters of Flavour C are added to this perfume mixture, what is the ratio of the quantities of Flavour A to Flavour C?

(A) Before Flavour C was added, there were 50 milliliters of perfume mixture.

(B) After Flavour C was added, there were 60 milliliters of perfume mixture

Choices:

- (A) If the question can be answered by one of the statement alone but not by the other.
- (B) If the question can be answered by using either statement alone.
- (C) If the question can be answered by using both the statements together, but cannot be answered by using either statement alone.
- (D) If the question cannot be answer by either of the statements

Answer: B

The question stem already tells us that there are 10 milliliters of Flavour C in the final perfume mixture. We also know that the original perfume mixture consists of only Flavours A and B in the ration of 3 to 7. Thus, we need the original volume of the perfume mixture to determine the amount of flavour A Contained in it.

SUFFICIENT: This tells us that original perfume mixture was 50 milliliters. Thus, there must have been 15 milliliters of Flavour A (to 35 milliliter of Flavour B) .

The ratio of A to C is 15 to 10 (or 3 to 2) .

SUFFICIENT: This tells us that the final perfume mixture was 60 milliliters.

WE know that this includes 10 milliliters of Flavour C.

This means the original perfume mixture contained 50 milliliters.

Thus, there must have been 15 milliliters of Flavour A (to 35 milliliter of Flavour B) .

The correct answer is B.

41. What is the perimeter of isosceles triangle ABC?

- (A) The length of side AB is 9.
- (B) The length of side BC is 4.

Choices:

- (A) If the question can be answered by one of the statements alone but not by the other.
- (B) If the question can be answered by using either statement alone.
- (C) If the question can be answered by using both the statements together, but cannot be answer by using either statement alone.
- (D) If the question cannot be answered by either of the statements.

Answer: C

Solution:

The perimeter of a triangle is equal to the sum of the three sides.

(1) INSUFFICIENT: Knowing the length of one side of the triangle is not enough to find the sum of all three sides.

Together, the two statements are SUFFICIENT. Triangle ABC is an isosceles triangle which means that there are theoretically 2 possible scenarios for the three sides of the triangle:

(A) $AB = 9$, $BC = 4$ and the third side. $AC = 9$ OR

(1) $AB = 9$, $BC = 4$ and the third side $AC = 4$.

These two scenarios lead to two different perimeters for triangle ABC, HOWEVER. Upon careful observation we see that the second scenario is an IMPOSSIBILITY. A triangle with three sides of 4,4, and 9 is not a triangle. Recall that any two sides of a triangle must sum up to be greater than third side.

$4 + 4 < 9$ so these are not valid lengths for the side of a triangle.

Therefore the actual sides of the triangle must be $AB = 9$, $BC = 4$, and $AC = 9$. The perimeter is 22.

41. The primary purpose of the passage is to

Choices:

(A) Present commonplace idea and its inaccuracies

(B) Describe a situation and its potential drawbacks

(C) Propose a temporary solution to a problem

(D) Analyze a frequent source of disagreement

Answer: B

Solution:

Option (B)

The author has tried to bring to limelight the situation of the minority-owned businesses in the United States. He has discussed the solution implemented by the Congress to bring in more opportunities for the minority-owned businesses and the potential drawbacks of the same. He is not talking of any temporary solution to a problem which implies option (C) cannot be the right answer choice. Nowhere in the passage has any disagreement been talked of as well, so option (d) is also incorrect. Option (e) doesn't make any sense in his context. Option (a) talks of a commonplace idea and its inaccuracies. However, the passage actually talks about a situation rather than an idea. Moreover, the author has started off the passage by talking about the congress move to help minority owned businesses and has given, in the subsequent paragraphs, the probable risks of the same. Thus, answer option (b) clearly stands out as the right answer choice.

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