

ANSWER on Question #82300 – Math – Discrete Mathematics

QUESTION

Determine if the statements are valid arguments.

I just got my ticket to the concert but if the number of tickets sold is more than 75% of its capacity, I will not want to go because it will be too crowded and I don't like it. If my friend Alex goes then I will go too. I can't believe this but yesterday I heard that Alex got tickets too and is going. The concert is sold out as of this morning. After so much reflection, I will go to the concert.

SOLUTION

First, let's select the conditions from the text.

1) If the number of tickets sold is more than 75% of its capacity, I will not want to go because it will be too crowded and I don't like it.

2) If my friend Alex goes then I will go too.

The second condition means that it does not matter to us how many tickets will be sold, since we value our friendship with Alex, then we will go to a concert in ANY case.

From our explanations it follows that the second condition is stronger than the first.

Now consider the events that occur: ". I can't believe this but yesterday I heard that Alex got tickets too and is going."

This offer means that it no longer matters to us whether over 75% of tickets will be sold or not. Since our friend Alex received a ticket to the concert and decided to go, we MUST go as well.

Second event:" The concert is sold out as of this morning."

This condition is no longer important, since our friend Alex has already decided to go to the concert, which means we will go for it.

Conclusion,

The statements of the story: "After so much reflection, I will go to the concert" is valid arguments

Q.E.D.