

American Truck and Rail Audits, Inc.

February 2017 Brain Teaser

When is Train's Birthday?

Truck and Plane would like to know Train's birthday.

Get on the right track for the right answer!

Statement 1: Plane only knows the date. If he were to know the birthday already, this would indicate that the number is unique; therefore it can be neither January 24 nor December 11. It would then follow, for Truck to be certain that Plane does not know the birthday as stated, the month Truck has been told must be neither January nor December – the months containing the two unique numbers.

Statement 2: Plane's date was not unique to any one month, and therefore, he did not initially know. Once he discarded January and December, he can say he now knows. It could be February 22, November 8 or November 28. It could not be the 3 because it appears more than once and that would mean Plane would not know.

Statement 3: Realizing that Plane's date must only occur once because he does now know the birthday, Truck ignores the date with 3. That leads to three options: November 8, November 28 or February 22. Plane says he knows Train's birthday for certain—that means he knows the month has to be February, as it only has one date option.

So when is Train's birthday? **February 22**

