Mutually Exclusive Events - Review

Use these words - ***happen, excludes, cannot, fact worked, events, four, throw, total, equals, other, same*** - to complete the passage below:

Mutually exclusive means that some make it impossible for events to at the time. For example, we get a four and a six on the same of a single dice. If we get a four, this getting a six, and if we get a six, this excludes getting a

We can use this and the that the of all the probabilities is 1 to find answers to problems like the one shown and out below:

In its next game, a football team's probability of winning is 0.55 and drawing is 0.1. What is the probability of the team losing its next game?

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Use these words - ***happen, excludes, cannot, fact worked, events, four, throw, total, equals, other, same*** - to complete the passage below:

Mutually exclusive means that some events make it impossible for other events to happen at the same time. For example, we cannot get a four and a six on the same throw of a single dice. If we get a four, this excludes getting a six, and if we get a six, this excludes getting a four.

We can use this and the fact that the total of all the probabilities is 1 to find answers to problems like the one shown and worked out below:

In its next game, a football team's probability of winning is 0.55 and drawing is 0.1. What is the probability of the team losing its next game?

Because it the team must win, lose or draw, the events are mutually exclusive and the total of these three probabilities is 1 so:

$$P(\text{win}) + P(\text{draw}) + P(\text{lose}) = 1$$

$$0.55 + 0.1 + P(\text{lose}) = 1$$

$$0.65 + P(\text{lose}) = 1$$

$$P(\text{lose}) = 1 - 0.65$$

$$P(\text{lose}) = 0.35$$

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