

Which team will win?

What do we **EXPECT** to happen in 36 games of 2-goal football?

The game is modelled with a die which has four yellow sides (goals for Team Yeti) and two blue sides (goals for Team Beaver).

For a 36-game season:

- Calculate how many times each team would be **expected** to score the first goal - enter these into the two boxes on the 1st goal tree branches.
- Then calculate how many times we would expect each of these to occur: YY, YB, BY, BB - and enter them into the boxes on the 2nd goal branches.
- Complete the columns for the final score, the winning team, and the numbers of games we would **expect** for each set of branches.
- Check that the overall total number of games is 36.



Expressing all proportions first as a fraction of 36, and then simplifying where possible:

http://nrich.maths.org/9546