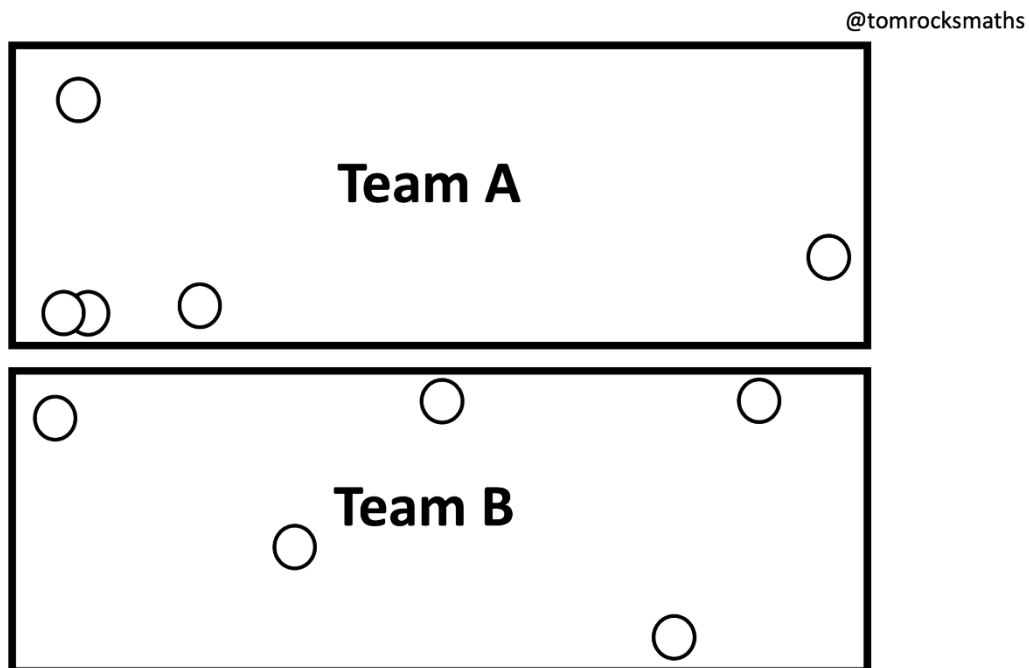


### Spring 2021 Video Classes

#### Maths Competition: Penalties

Watch the video class 'How to take the perfect penalty kick' by Dr Tom Crawford, and then look at the diagram below, which shows the placement of the 5 penalty kicks for two teams in a penalty shootout.



1. Based on the content discussed in the lecture, which team would you expect to win?
2. Can you calculate the 'expected number of penalties' that each team will score based on the placements shown?

#### How to enter

1. Complete your competition entry and make sure it follows the guidelines listed below
2. Fill out the [Competition Cover Sheet](#)
3. Email your entry and your cover sheet to us at [inspire@sjc.ox.ac.uk](mailto:inspire@sjc.ox.ac.uk)

#### Terms & Conditions

1. You must complete the [Competition Cover Sheet](#) and submit it along with your entry to [inspire@sjc.ox.ac.uk](mailto:inspire@sjc.ox.ac.uk) before the closing date. If we do not receive a completed cover sheet with your entry, we will NOT be able to consider the entry.
2. The competition closes at **5pm on Wednesday 28 April 2021**.
3. The work you submit must be entirely your own.

4. Prize winners will be contacted via email after the competition's closing date. All entries with correct answers to both parts of the challenge will be entered into a random prize draw for the following prizes:
  - a. 1x 1<sup>st</sup> place: £20 Amazon gift voucher
  - b. 2x 2<sup>nd</sup> place: £10 Amazon gift voucher
  - c. 3x 3<sup>rd</sup> place: £5 Amazon gift voucher