



THIS SHEET IS USED BY CHAIRPERSON ONLY

Captains are asked if they hear the Chairperson clearly.

Chairperson reads the first task aloud. Everyone in the Group hears the task.

The answers are provided by Captains in direct messages to the Chairperson.

The time to solve each problem is **20 seconds, including the time of typing.**

After collecting the answers, Chairperson moves on to the second task etc.

Points for any problem can be either **0** (invalid, absent, incomplete, unintelligible or wrong answer) or **1** (correct answer).

All answers and number of points are public.

The winner is determined by the maximum number of correct answers.

In case of a tie, an extra Problem 6 is offered, and the Captain with the best answer gets an extra 1 point.

The screenshots of answers are submitted to the Scoring Commission for archiving.

All scores (including an extra point in a tie breaker) and the winner are recorded in Science Fight Protocol.

8th IYNT 2020: Captain's Contest for Semi-Finals

1. Here is a list of five mammals. Indicate the only one which is egg-laying.

Arctic fox (*Vulpes lagopus*), Baluchistan pygmy jerboa (*Salpingotulus michaelis*), Domestic cat (*Felis catus*), Platypus (*Ornithorhynchus anatinus*), Western gorilla (*Gorilla gorilla*)

2. Here is a list of four numbers. Indicate the only one which is a prime number.

96, 97, 98, 99

3. The Sun's magnetic field goes through a cycle and periodically flips. What is the duration of the solar cycle?

4. Arrange these three metals in the order of **increasing** density.

Iron (Fe), Lead (Pb), Osmium (Os)

5. Arrange these three stars in the order of **increasing** visible magnitude.

Aldebaran, Sirius, Sun

Do not ask the question below unless a tie breaker is announced

6. *De revolutionibus orbium coelestium* (On the Revolutions of the Heavenly Spheres) is the book by Nicolaus Copernicus on the heliocentric theory. Estimate the year of its first publication.

Correct answers:

1. Platypus
2. 97
3. 11 years
4. Iron→Lead→Osmium
5. Sun→Sirius→Aldebaran
6. 1543