

Round 0

Who is in your team?

What is your team's name?

What is your team's motto?

Topics:

1. Pop Culture
2. History of Mathematics
3. Flags
4. General History
5. Estimation
6. Sport

Round 1

Team name:

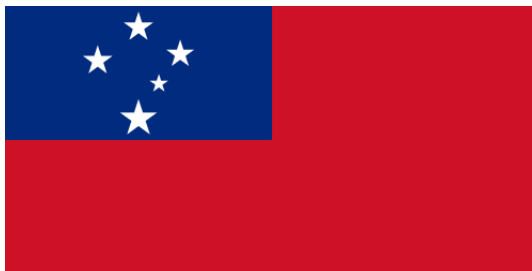
1. What font was used in the title of *Avatar: Frontiers of Pandora*?

A: Standard Papyrus

2. Which female mathematicians have thus far won the Fields Medal and when?

A: Two; Maryam Mirzakhani 2014, Maryna Viazovska 2022

3. To what country/territory does the following flag belong to?



A: Samoa

4. Order the following events by the time that you think they happened

- Breakup of Yugoslavia
- Nintendo was founded
- John F. Kennedy was assassinated
- Switzerland legalised same-sex marriage
- Barack Obama received the Nobel Peace Prize

A:

- Nintendo was founded 1889
- John F. Kennedy was assassinated 1967
- Breakup of Yugoslavia 1991
- Barack Obama received the Nobel Peace Prize 2009
- Switzerland legalised same-sex marriage 2022

5. How many limestone blocks are there in the Great Pyramid of Giza?

A: 2.3 million

6. What is the current men pole vaulting world record and who established it?

A: 6.30m by Armand Duplantis

Round 2

Team name:

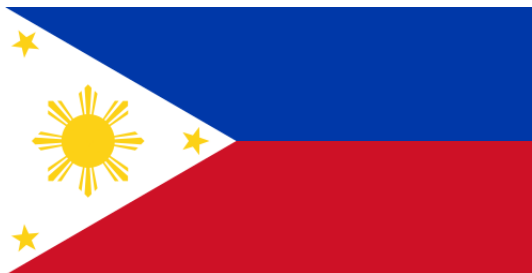
1. Which town in Germany is the prototype of the small town at Wall Maria in the anime *Attack on Titan*?

A: Nördlingen

2. In which year did Sir William Rowan Hamilton first describe the quaternions?

A: 1843

3. To what country/territory does the following flag belong to?



A: Philippines

4. Order the following events by the time that you think they happened

- US bought Alaska from the Russian Empire
- First attempt to construct a tunnel between Britain and France
- Humans made the first appearance on the moon
- Sinking of the Titanic
- Cession of Hong Kong Island to the UK

A:

- Cession of Hong Kong Island to the UK 1841
- US bought Alaska from the Russian Empire 1867
- Sinking of the Titanic 1912
- Human made the first appearance on the moon 1969
- First attempt to construct a tunnel between Britain and France 1974

5. How many pages do J.R.R. Tolkien's books *The Hobbit*, *The Lord of the Rings*, and *The Silmarillion* have together?

A: 1752

6. What country is the current baseball world champion?

Men:

Women:

A:

Men: Japan

Women: Japan

Round 3

Team name:

1. Match the following movies that share the same actor/actress as the protagonist.

- *The Matrix*
- *Danish Girl*
- *The Devil Wears Prada*
- *Once Upon a Time in Hollywood*
- *Fantastic Beasts and Where to Find Them*
- *Catch Me If You Can*
- *John Wick*
- *Princess Diary*

A: 1-3, 2-1, 3-4, 4-2

2. Who was the first German female mathematician to habilitate and when was it?

A: Emmy Noether, 1919

3. To what country/territory does the following flag belong to?



A: Uruguay

4. Order the following events by the time that you think they happened

- University of Bologna was founded as the first university in the world
- Mongol Empire invaded Kingdom of Poland
- The Black Death ravaged Europe
- Columbus discovered America
- The last Crusade was defeated in Acre

A:

- University of Bologna was founded as the first university in the world 1088
- Mongol Empire invaded Kingdom of Poland 1240
- The last Crusade was defeated in Acre 1272
- The Black Death ravaged Europe 1353
- Columbus discovered America 1492

5. How many hairs does an otter have per square centimetre of skin?

70.000

6. What is the approximate speed of a 4-man bobsled?

A: 150km/h

Round 4

Team name:

1. Which British singer was in the movie *Kingsman: The Golden Circle*?

A: Elton John

2. How many mathematicians have won both the Fields Medal and the Abel Prize?

6: Serre, Milnor, Atiyah, Thompson, Deligne, Marguli

3. To what country/territory does the following flag belong to?



A: Seychelles

4. Order the following events by the time that you think they happened

- The book 1984 was published
- Russian satellite Sputnik went to space
- Uno was first developed in America
- The first track of the Schwebbahn started operating
- The Church of Scientology was founded

A:

- The first track of the Schwebbahn started operating 1901
- The book 1984 was published 1949
- The Church of Scientology was founded 1953
- Russian satellite Sputnik went to space 1957
- Uno was first developed in America 1971

5. What is the approximate number of muscles in the average human body?

A: 640

6. What is the name of the trophy awarded to the winner of the men's Rugby World Cup?

A: The Webb Ellis Cup

Round 5

Team name:

1. Name the four Houses in Hogwarts.

A: Gryffindor, Hufflepuff, Ravenclaw, Slytherin

2. How many problems did Hilbert present in 1900? How many of those were published afterwards?

A: 23 published; but 24 were on the original list presented

3. To what country/territory does the following flag belong to?



A: Sierra Leone

4. Order the following events by the time that you think they happened

- Alan Turing cracked the Enigma
- The coronation of Elizabeth II
- Nazi Germany launched Operation Bolivar for espionage in Latin America
- US government started to use metric system for weights and measures in trade and commerce
- The first electric traffic light was developed

A:

- The first electric traffic light was developed 1912
- Alan Turing cracked the Enigma 1939
- Nazi Germany launched Operation Bolivar for espionage in Latin America 1940-1945
- The coronation of Elizabeth II 1953
- US government started to use metric system for weights and measures in trade and commerce 1975

5. How many bicycles are pulled out of Amsterdam's canals each year?

A: 15.000

6. In competitive swimming, what is the order of strokes in the individual medley events?

A: 1- Butterfly, 2- Backstroke, 3- Breaststroke, 4- Freestyle

Round 6

Team name:

1. Which film studio has a lion at the beginning of all its productions?

A: Metro-Goldwyn-Mayer Studios

2. Who wrote the first paper on category theory and in which year was it published?

A: Eilenberg–Mac Lane in 1945 (September 8th)

3. To what country/territory does the following flag belong to?



A: Wales

4. Order the following events by the time that you think they happened

- Initial form of modern stock market was established by Dutch merchants
- First appearance of Christianity in Japan
- Chile and Colombia declared independence from the Spanish Empire
- Potatoes stopped being exotic novelty in botanical gardens and started being eaten in Northern Europe
- King Charles II of England tried to ban coffee

A:

- First appearance of Christianity in Japan 1549
- Potatoes stopped being exotic novelty in botanical gardens and started being eaten in Northern Europe 1573
- Initial form of modern stock market was established by Dutch merchants 1602
- King Charles II of England tried to ban coffee 1675
- Chile and Colombia declared independence from the Spanish Empire 1810-1820

5. How many people worldwide own a smartphone?

A: 4 billion

6. In what year was volleyball first officially introduced to the Olympic Games?

A: 1964