Geography

Which of these EU countries is most densely populated: Netherlands, United Kingdom or Slovenia?

Answer: Netherlands

Which country produces the most heroin: Colombia, Afghanistan or Wales?

Answer: Afghanistan

Which country has more airports: Scotland or Bolivia?

Answer: Bolivia

Answer: Iceland

In which country is the Barossa Valley wine making area?

Answer: Australia

What country do the Smurfs come from?

Answer: Belgium

Which Turkish city has the name of a comic book character?

Answer: Batman

Currently, how many time zones are there in the world?

Answer: 39

Every state in what country has a place called Sabo?

Answer: Nigeria

Sport

How many minutes is a rugby league match?

Answer: 80

Who won gold in golf in the Olympics in 2016?

Answer: Justin Rose

How many major sports teams are there in Los Angeles?

Answer: 9

How many goals were scored in the final of the 1998 world cup?

Answer: 3

What is the largest stadium in the world?

Answer: Azteca Stadium in Mexico city

What is the name of the score worth 1 point in Australian rules football?

Answer: Behind

Who is the female association football player with the most international goals?

Answer: Abby Wambach (184)

Wimbledon is the oldest tennis grandslam tournament, which is the second oldest?

Answer: US open.

Who is the first Chinese male athlete to win gold in an Olympic track event?

Answer: Liu Xiang

In the 2011 Rugby World Cup which team did Wales play in Wellington?

Answer: South Africa

History

On which island was Napoleon born?

Answer: Corsica

Which city became capital of West-Germany in 1949?

Answer: Bonn

Which lost city in South America was discovered in 1911 by the archaeologist Hiram Bingham?

Answer: Machu Picchu

How long did Neil Armstrongs first ever walk on the moon last: 20 minutes, 2 hours or 20 hours?

Answer: 2 hours

The Canadian Captain Arthur 'Roy' Brown is credited with bringing which man down?

Answer: The Red Baron

Which Apollo 11 astronaut did not set foot on the moon?

Answer: Michael Collins

What was the capital city of Portugal between the years 1808 and 1821?

Answer: Rio de Janeiro

Alan Shepard was the first man to do what?

Answer: Hit a golf ball on the moon.

Which company owned most of what is now called Canada in the early colonial days?

Answer: The Hudson Bay Company.

In what American state did the Wright brothers make the first successful powered flight by Man?

Answer: North Carolina

Science

On which hemisphere were the most dinosaur skeletons found?

Answer: Northern Hemisphere

Which unit indicates the light intensity?

Answer: Candela

What is the term for a positive electrode?

Answer: Anode

What does a sphygmomanometer measure?

Answer: The blood pressure

Thought to be due to a lack of sunlight in winter, what does the acronym SAD stand for?

Answer: Seasonal Affective Disorder

In which part of the body are double, tented, radial or Ulnar loops, arches and Whorls found?

Answer: Fingers or Thumbs

What is the fastest animal on two legs?

Answer: Ostrich

How many months is the average gestation period of an elephant?

Answer: 22 months.

Of what is 'silvics' the study?

Answer: Trees and their environment.

In which country was the physicist Marie Currie born?

Answer: Poland

Who won the 2017 FA Cup Final?

Answer: Arsenal

Which city was Britain's 'City of Culture' for 2017?

Answer: Hull

On what date was Donald Trump sworn in as president of the United States of America?

Answer: January 20th 2017

Who won the Super Bowl in 2017?

Answer: The New England Patriots

What did SpaceX do for the first time in 2017?

Answer: first reflight of an orbital class rocket

In 2017, Netflix released a new Star Trek series: how many Star Trek series have their been?

Answer: 6 (Original, Next Gen, DS9, Voyager, Enterprise, Discovery)

What did the Australian Bureau of Statistics release on the 15th of November 2017?

Answer: Australian Marriage Law Postal Survey (61% Yes)

What was the name of the winner of Eurovision 2017?

Answer: Salvador Sobral

What is the name of the TV show Prince Harry's fiancee starred in?

Answer: Suits

Which island of the British Commonwealth was most heavily damaged during Hurricane Maria?

Answer: Dominica

General Knowledge

Which country did Ceaucescau rule from 1965-1989?

Answer: Romania

In American football what is the scoring area of the field called?

Answer: End zone

If you suffer from 'gymnophobia', what are you most afraid of?

Answer: Nudity

Into which sea does the Nile flow?

Answer: Mediterranean

Afrikaans was developed from which European language?

Answer: Dutch

One and a half litres of champagne is known as a what?

Answer: Magnum

Where was Marc Cohn walking when he put on his blue suede shoes?

Answer: Memphis

What is the name of the sequel to the film and book "Twilight'?

Answer: New moon

What is Samuel L. Jackson's middle name?

Answer: Leroy

Out of the 3 Grand Tours (cycling race) which one is the oldest?

Answer: France

Answer: Pak choi

2

Answer: Passion fruit

Э.

Answer: Jackfruit

Answer: Loquat

5. Answer: Ugli fruit

Answer: Starfruit/Carambola

Answer: Kumquat

0

Answer: Atemoya

Answer: Pawpaw

Answer: Mulberries

Answer: Paul McCartney

2

Answer: Paul Pogba

Answer: Paul Rudd

Answer: Paul Simon

Answer: Paul McGann

Answer: Paul O'Grady

Answer: Paul Weller

0

Answer: Paul Walker

Answer: Paul Newman

Answer: Paul Hollywood

```
1.
                                                                                Answer: R
cat("Hello world\n")
  2.
                                                                             Answer: Rust
fn main() {
   println!("Hello, world!");
}
  3.
                                                                               Answer: css
body:before {
   content: "Hello World";
}
  4.
                                                                          Answer: Python 2
print "Hello World"
                                                                          Answer: Brainf***
  5.
..+++.>++.<<+++++++++++++++.>.+++.----.---.>+.
                                                                           Answer: COBOL
  6.
********
IDENTIFICATION DIVISION.
PROGRAM-ID. HELLO.
ENVIRONMENT DIVISION.
DATA DIVISION.
PROCEDURE DIVISION.
MAIN SECTION.
DISPLAY "Hello World!"
STOP RUN.
********
                                                                      Answer: VBA for Excel
Private Sub Workbook_Open()
   MsgBox "Hello world!"
End Sub
```

8. Answer: SAS * Writes as output title; TITLE "Hello World!"; * writes to the log; data _null_; PUT "Hello world!"; run; Answer: SPSS 9. TITLE 'Hello World'. 10. Answer: C++ #include <iostream> using namespace std; int main() cout << "Hello, World!";</pre> return 0;

}

Solve the following mathematical problems.

Obtain:

Answer: $\frac{e^x}{2}\sin(x) + \frac{e^x}{2}\cos(x)$

$$\int e^x \cos(x)$$

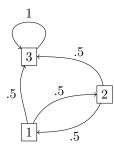
Obtain:

Answer: 2

$$\lim_{x \to 1} \frac{x^4 - 1}{x^2 - 1}$$

What is the long run stationary distribution of the following discrete time Markov chain:

Answer: (0, 0, 1)



Minimize: 4x + 12y subject to:

Answer: $(x, y) = (\frac{5}{11}, \frac{3}{11})$

$$x \ge 0$$

$$y \ge 0$$

$$5x - y \ge 2$$

$$x + 2y \le 1$$