

## Circumference of the Earth

1 The first person to calculate the circumference of our planet was the mathematician Eratosthenes, in the 3rd century BC. He estimated that the Earth's circumference was between 39 060 and 40 320 km. The value known today is 40 075 km at the equator!

## Quebec

2 Since 1999, an iris, called an *Harlequin blue flag*, has been the floral emblem of Quebec. The variety of its colours illustrates Quebec's cultural diversity.

## Alloprof can help and it's free!

3 Monday to Thursday (5 p.m. to 8 p.m.) and Sunday (2 p.m. to 5 p.m.), talk to a teacher by phone, text or chat. Find concept sheets, crash courses, videos, exercises, games, useful tips and a help zone on [alloprof.qc.ca](http://alloprof.qc.ca) any time!

## What is the purpose of math?

4 Math is important in everyday life. For example, it can be used to calculate a game score or measure quantities in the kitchen. Studying math also helps develop problem-solving skills!

## Your Alloprof login

5 Create an account on [alloprof.qc.ca](http://alloprof.qc.ca). It will allow you to personalize your experience by adapting it to your needs and education path.

## Space relics

6 In 2018, a meteorite crashed in Madagascar. According to researchers, it dates back 4.56 billion years ago, which is when the solar system was formed!

## Numbers and letters

7 50M3 P30P13 C4NN07 R34D 7H15 73X7. 3V3N 7H0UGH 17 15 H4RD, Y0UR BR41N R4P1DLY 4D4P75. 17 SHOULD B3 34513R BY N0W.

## Confusing descriptions

8 There are **three young talented** women in the art gallery. Or is it, there are **three talented young** women in the art gallery? Is the order of adjectives confusing? Visit Alloprof to learn all about the order of adjectives!

## Where does the wind come from?

- 9
- a) The movement of trees
  - b) The temperature difference between two air masses
  - c) Ocean currents

Answer : b

## Only in Quebec!

10 Did you know that the word *bleuet* is a Quebecism, which is a word specific to Quebecois French? It was created to represent blueberries—a typically Canadian fruit.

## What is the purpose of science?

11 Science allows us to look at the world rationally. Studying science develops our critical thinking and understanding of life in all its dimensions.

## A liquid gold mine

12 Located on the border between Canada and the United States, Lake Superior is the largest of North America's Great Lakes. Did you know that it is also the largest freshwater lake in the world?

- 13 **Bilingual Canadians**  
Do you know which Canadian provinces have the highest percentage of bilingual speakers? According to the 2016 Census, together, Quebec and New Brunswick account for a little over 78% of bilingual Canadians!
- 14 **Playing math games**  
Does learning the addition, subtraction, multiplication or division tables give you nightmares? Alloprof offers a math game that can help you practise these skills. Take a look for yourself!
- 15 **On top of the world!**  
At 8848 metres, Mount Everest is the tallest mountain in the world when measured from sea level. It lies on the border between Tibet (China) and Nepal. Its summit was reached for the first time in 1953 by Edmund Hillary and Tenzing Norgay.
- 16 **Here's everything you need to know!**  
Got a question about any subject? Visit the Alloprof Help Zone, ask a question and get a quick answer, 7 days a week!
- 17 **Punctuation**  
Is it "Time to eat grandma" or "Time to eat, grandma?" Punctuation is important. Don't forget the comma, for grandma's sake! Visit Alloprof for more tips on punctuation!
- 18 **A 42-year winter!**  
Did you know that the seventh planet in the solar system, Uranus, only has two seasons: summer and winter? And each of them lasts ... 42 years!
- 19 **Humming with congestion**  
Did you know that you can't hum when your nose is congested? It's impossible, because air has to pass through your nose to produce the sound. Try it and see!
- 20 **Shuffling letters**  
An anagram is a word obtained by mixing the letters of another word. For example, *listen* is an anagram of *silent*. An interesting coincidence, don't you think?
- 21 **A one-on-one lesson!**  
Nothing better than a Crash Course to review a topic! Check out Alloprof for these interactive videos that give you a chance to practise and check your understanding.
- 22 **Thousands of languages**  
Did you know that there are about 7000 languages in the world? Of these, English is the most widely spoken, followed by Putonghua (Standard Mandarin). French is in fifth place!
- 23 **How far is the lightning?**  
To find out the distance in kilometres that separates you from a bolt of lightning during a thunderstorm, count the number of seconds between the bolt of lightning and the loud thunder that accompanies it, then divide by three.
- 24 **A rainbow of colours**  
Red, yellow and blue are the three primary colours, which are the basic colours used to create all other colours. Have fun mixing them together!

**25 Hold your breath!**  
Although humans and animals on Earth breathe oxygen, this gas makes up only about 21% of the Earth's air. It is nitrogen gas that makes up the majority at about 78%!

**26 Laugh for your health!**  
Did you know that laughing is good for your health? Among other things, it helps to reduce anxiety and improve mood, and has similar effects to moderate physical exercise!

**27 An NHL legend**  
Because he always kept his cool, goalie Georges Vézina was nicknamed the *Chicoutimi Cucumber*, from the expression *cool as a cucumber*. He left his name on the iconic Vezina Trophy, awarded to the NHL's best goaltender.

**28 Vice versa**  
A palindrome is a word, group of words or phrase that reads the same backwards and forwards! *Radar*, *kayak* and *racecar* are palindromes.

**29 A fascinating crustacean!**  
Did you know that lobsters have two stomachs? What's more, if it loses a claw, leg or antenna, it grows back when it moults. They also have receptors on their claws and legs that allow them to smell!

**30 Homophones**  
"***They're*** over ***there*** with ***their*** friends." Knowing the difference is important:  
They're = They are  
There = Location  
Their = Possessive pronoun

**31 Book of Spells!**  
Enter the fantastic world of adorable creatures and improve your English reading comprehension.

**32 Alloprof on YouTube!**  
Did you know that Alloprof in English has over 115 educational videos in all subjects for all grades, and it's growing every day? Take a look!

**33 Mysterious clouds**  
Have you ever noticed that not all clouds have the same shape? Some look like feathers, others like cauliflower! Different clouds form at different heights in the atmosphere. Learn more about cloud types with Alloprof!

**34 Amuse-toi en français!**  
Need to brush up on your French? Or are you learning it for the first time? Alloprof has games, concept sheets, videos, exercises and more! Visit the website to practise and improve your French skills!

**35 A tornado in a jar**  
Add a few drops of food colouring to water in a jar. Add a teaspoon of vinegar and a teaspoon of dish soap. Close the jar and mix everything in a swirling motion to see a vortex!

**36 Canine investigations**  
Did you know that all dogs have different snouts? Like human fingerprints, a dog's snout print can be used to identify it.

## Grimoire

37 Read short stories and answer questions to improve your French reading comprehension and help cute little creatures evolve in the Grimoire game!

## An invention that changes everything!

38 Hedy Lamarr, famous for her acting career, also had other talents: in 1941, with her friend George Antheil, she invented a system that is now the basis of WiFi, GPS and Bluetooth technologies!

## Organizing your schoolwork

- 39
- Make a plan
  - Choose a quiet space
  - Get the hardest task out of the way first
  - Use Alloprof's Motivational Timer!

## 3 tips for revision

- 40
1. Plan ahead.
  2. Study in short bursts and vary the tasks.
  3. Check your understanding by doing practice exercises!

## Decimal operations

41 Do you need to practise adding and subtracting decimal numbers? Hop over to Alloprof and check out the interactive exercises. You can choose your level and the number of questions!

## Effortless studying

42 Tell your parents what you learned at school. This way, your brain will memorize what you've learned and you'll have studied without even realizing it!

## Don't panic!

43 Is the pressure of school getting to you? Check out study tips and smart strategies on Alloprof's website!

## To the centre of the Earth

44 Did you know that the deepest point on the planet, called *Challenger Deep*, is located in the Mariana Trench in the Pacific Ocean. It is almost 11 000 metres below sea level!

## A very special animal

45 As well as having a beak like a duck, a tail like a beaver and legs like an otter, the platypus is one of the very few mammals to lay eggs and it even has venomous spurs!

## What is the purpose of physical education?

Among other benefits, physical activity helps us:

- 46
- sleep better
  - improve physical fitness
  - reduce stress and anxiety

## Borrowed words

47 Languages often borrow words from each other. In English, *rendez-vous*, *hotel*, *cuisine*, *literature* and *military* are borrowed from French and *skunk*, *toboggan* and *hickory* are borrowed from Indigenous languages.

**48** **What are flags for?**  
A flag is an easily recognizable symbol. It allows a person to show their membership to an organization or nation.

**49** **Demonyms**  
A demonym is a word naming the inhabitants of a specific place. Many residents of Quebec towns have surprising demonyms, like *Campivallensiens* in Salaberry-de-Valleyfield or *Méchinois* in Les Méchins!

**50** **Reading is important!**  
Did you know that reading is a great way to succeed at school? Among other things, it helps you discover new words, develop your imagination and can even help you sleep better at night!

**51** **A wonder to discover**  
Located in the Cuzco region of Peru, Machu Picchu is one of the 7 wonders of the modern world. It is an ancient Inca city built around 1450, at an altitude of 2430 m!

**52** **Canadian Spelling**  
Have you ever noticed that *color* and *colour* are spelled differently? Or *dialog* and *dialogue*? Is it *traveling* or *travelling*? Hop over to Alloprof to learn all about Canadian spelling.