

GYAN BHARATI SCHOOL

QUEST.....

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IDENTIFY ME.....



- **I was born on November 14, 1891 in West Punjab and died on 10 April 1949 due to a heart attack.**
- **I studied the fossils of the Indian subcontinent.**
- **I considered myself to be a geologist first who took an interest in archaeology, rather than a botanist.**
- **I studied the plants of India in the present as well as the historical context.**
- **I was elected a Fellow of the Royal Society of London (FRS) in 1936, the highest British scientific honor, awarded for the first time to an Indian botanist.**
- **I founded 'The Paleobotanical Society' which established the "Institute of Palaeobotany" on 10 September 1946 in Lucknow.**



WORLD HEPATITIS DAY

28th July

HEPATITIS. KNOW IT. CONFRONT IT.

Hepatitis is inflammation of the liver caused by a virus. There are three different hepatitis viruses, hepatitis A, B, and C. All of these viruses cause short term or acute infection.

SYMPTOMS



Jaundice



Fever and tiredness



Loss of appetite/weight



Nausea/vomiting



Abdominal pain

PROTECT YOURSELF AND YOUR FAMILY

Get vaccinated against hepatitis B



Do not smoke or consume alcohol



Do not share needles, tooth brushes, razors & nail clippers



Ask for blood or blood products to be screened for hepatitis B & C



Take nutritious diet



Wash hands with soap and water before cooking or eating and after visiting the toilet



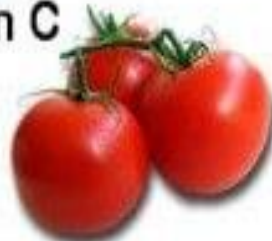
**GET YOURSELF SCREENED FOR HEPATITIS B & C
AND VACCINATED FOR HEPATITIS-B TODAY !**

Foods You Should Eat Everyday

Garlic - anti - bacterial, anti-fungal, anti-viral and antiseptic properties



Tomatoes - rich in vitamin C



Avocado - lower your cholesterol



Hemp seeds - Hemp seeds are a complete protein

Spinach - Anti - Inflammatory



Cucumbers - hydrate the body



Kale - high in iron



Grapefruit - boost liver function

Peppers - loaded with antioxidants



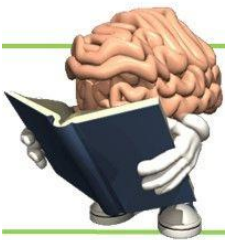
RawForBeauty

ASTONISHING HUMAN BODY FACTS

Blood is 6 times thicker than water

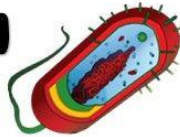
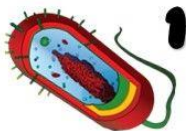


SNEEZES REGULARLY EXCEED 100 MPH



YOUR BRAIN USES 20% OF THE TOTAL OXYGEN AND BLOOD IN YOUR BODY

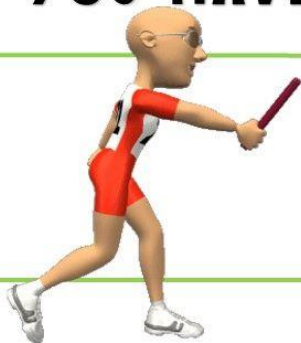
AN ADULT HUMAN BODY CONTAINS APPROXIMATELY 100 TRILLION CELLS



In one day, your Heart beats 100,000 times



YOU HAVE HALF-A-MILLION SWEAT GLANDS



A Body Produces 25 Million New Cells each Second



HUMANS SHED ABOUT 600,000 PARTICLES OF SKIN EVERY HOUR



THERE ARE 206 BONES IN YOUR BODY



When you take one step, you are using up to 200 muscles



Carbon Footprint is the total amount of greenhouse gases produced to directly and indirectly support human activities, usually expressed in equivalent tons of carbon dioxide (CO₂).

10 TIPS FOR REDUCING YOUR CARBON FOOTPRINT

1. Carpooling at least once a week.

2. Go one week without using disposable cups given to you at coffee shops.

3. Try turning off the lights in an empty room at home or in your dorm.

4. Instead of eating lunch on campus try packing a waste-free (meaning no plastic) lunch.

5. Unplug your computer every night for one month if you have a computer.

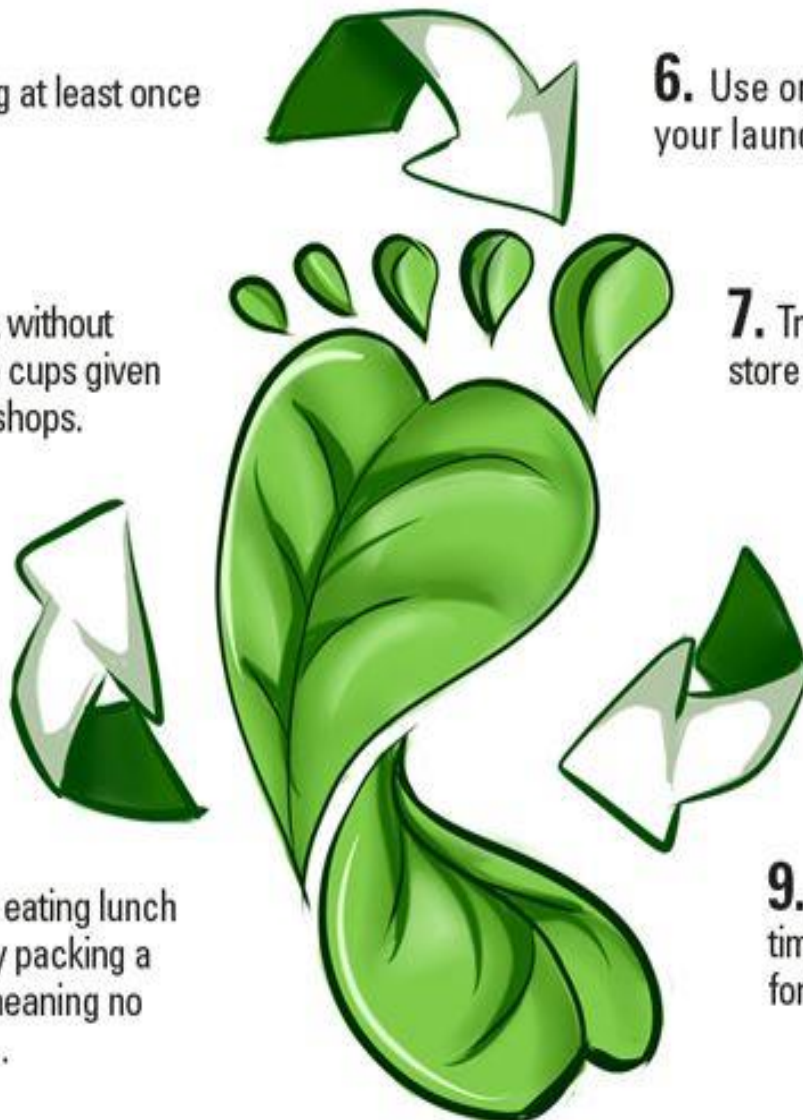
6. Use only cold water to do your laundry for one month.

7. Try skipping a trip to the store and shop online.

8. Try reducing your printing a little bit each day and only print what is absolutely necessary.

9. Cut your shower time by two minutes for one month.

10. Reduce your bottled water consumption for seven days.





- ♣ India-born Australian **Professor Akshay Venkatesh** has been awarded the prestigious 2018 Fields Medal, described as the Noble prize of mathematics, for his contribution to a broad range of subjects in mathematics.
- ♣ The medal is awarded by the international mathematical union once every four years recognising of scholars under the age of 40.
- ♣ Currently working at the Stanford university, 36 year old Professor Venkatesh has been recognised for broad range of subjects in mathematics, including number theory, homogenous dynamics, representation theory and arithmetic geometry.
- ♣ His work encompasses number theory, automorphic forms, representation theory and ergodic theory.

ONE IMPORTANT RESULT

A system of pair of linear equations in two variables i.e. $a_1x + b_1y + c_1 = 0$, $a_2x + b_2y + c_2 = 0$, relation between three ratios a_1/a_2 , b_1/b_2 and c_1/c_2 .

Compare the ratio	Graphical representation	Algebraic interpretation
$a_1/a_2 \neq b_1/b_2$	Intersecting lines	Exactly one solution
$a_1/a_2 = b_1/b_2 = c_1/c_2$	Coincident lines	Infinitely many solutions
$a_1/a_2 = b_1/b_2 \neq c_1/c_2$	Parallel lines	No solution

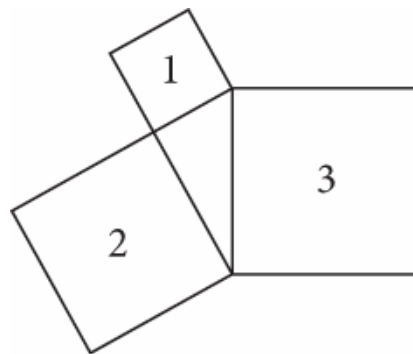
BRAIN TEASERS

1. If $y - b = a - 2x$ For the equation given , if $a > 0$ and $b > 0$, then which of the following statements is always true?

- A) $y < a + b$ B) $y > a + b.$ C) $y = a + b.$ D) $y = -2(a + b)$

2. Anu leaves home for school on her bike at 9:05 am, riding at an average speed of 10 miles per hour. 15 minutes later her mother realizes that Anu forgot to take her lunch. Anu's mother immediately gets into her car and drives at an average speed of 25 miles per hour. At what time will Anu's mom catch up to her.

- A) 9:15A.M B) 9:20 AM C) 9:26 A.M D) 9:30 A.M



3. Each of the quadrilaterals in the fig above is a square. The area of the smallest square (1) is 16 square units and the area of the medium square (2) is 48 square units what is the area, in square units of the largest square (3)?

- A) 56 B) 64 C) 78 D) 96

4. When water is heated in a closed system, the vapour pressure increases slowly at first and then more rapidly. As the water reaches the boiling point of 100°C , the vapour pressure reaches 1 atm, known as 1 standard atmosphere. Which of the following models best describes the increase in vapour pressure as water is heated to its boiling point?

- A) Linear B) Quadratic C) Polynomial D) Exponential

LIFE HACKS FROM A MATHEMATICIANS VIEW POINT

- 1. There is no permanent place in the world for ugly mathematics . It may be very hard to define mathematical beauty but that is just as true of beauty, of any kind, we may not know quite what we mean by a beautiful poem, but that does not prevent us from recognising one, when we read it.-----
G.H. HARDY**
- 2. Mathematics, in general, is fundamentally the science of self-evident things.--- FELIX KLEIN**
- 3. The essence of mathematics lies in its freedom.
-----CANTOR**
- 4. All mathematical truths are relative and conditional.-----
C.P STEINMETZ**
- 5. The whole science is nothing more than a refinement of everyday thinking.-----ALBERT EINSTEIN**
- 6. With the calculus as a key, mathematics can be successfully applied to the explanation of the course of nature.
-----WHITEHEAD**
- 7. Just as a mountaineer climbs a mountain, because it is there, so a good student studies new material because it is there.----- JAMES B. BRISTOL**
- 8. One should study mathematics because it is only through mathematics that nature can be conceived in harmonious form.-----BIRKHOFF.**
- 9. He who seeks for methods without having a definite problem in mind seeks for the most part in vain.----D. HILBERT**
- 10. The moving power of mathematical invention is not reasoning but imagination.----- A. DEMORGAN.**
