



Aakash

Medical | IIT-JEE | Foundations

KNOWLEDGE BYTES

MARCH 2025

CLASS 9





Aakash

Medical | IIT-JEE | Foundations

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PREFACE

What is Knowledge Bytes ?

Knowledge Bytes is a collection of riddles, interesting facts, mnemonics, and puzzles that will make your learning fun and engaging.

We want you to be delighted about studying. Knowledge Bytes helps you to know more about the subject in a fun, motivating and educational way and helps to implement what you learn in a creative way.

Benefits



Saves Time



Develops Learning Skills



Stimulates Interest



Leads to Increased Comprehension

EXPLORE

1. Linear Equations in Two Variables	1
2. Force and Laws of Motion	7
3. Is Matter Around Us Pure?	11
4. Tissues	15
5. India – Size and Location	20
6. Active and Passive Voice	23
7. Number Riddles	25

Cross word

Linear Equation

Across

4. Answer of an equation is also called its _____

6. Every solution of the linear equation in two variables represents a _____ on the graph of the equation.

7. Number of solutions of a linear equation in two variables of the type $px + qy = 0$ is/are _____

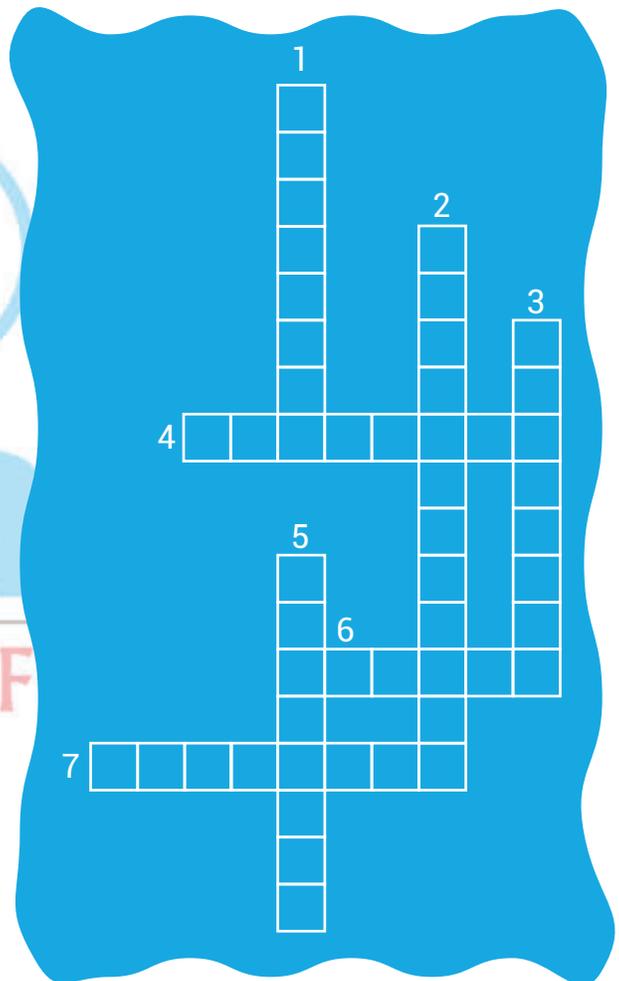
Down

1. Graph of the equation of the type $x = a$ is a line _____ to y -axis.

2. The graph of a linear equation in two variables is a _____

3. The term whose value doesn't change is called a _____

5. A linear equation in two variables has _____ solutions.



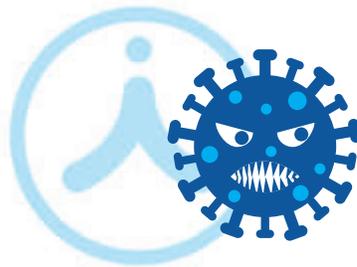
Absolute Value or Modulus

The absolute value or modulus of a real number x is denoted by $|x|$ and it is non-negative for any value of x .

$$|x| = \begin{cases} x & \text{if } x \geq 0 \\ -x & \text{if } x < 0 \end{cases}$$

I am always positive

A vertical bar on each side of the quantity



$|x|$

Just like that

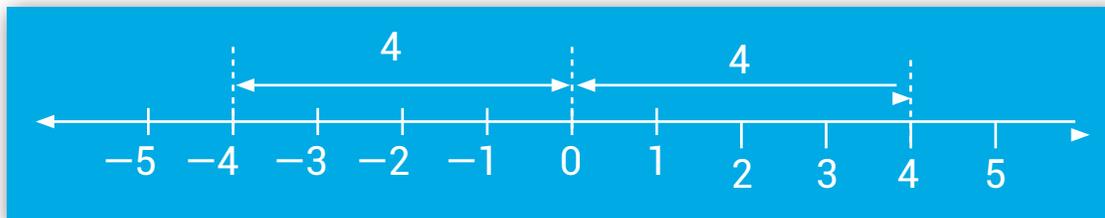


$$|6 \times (-2)| = |-12| = 12$$

$$-|3 - 8| = -|-5| = -5$$

$$-|7 - 2| = -|5| = -5 \text{ etc.}$$

The absolute value of a number can be considered as its distance from zero.



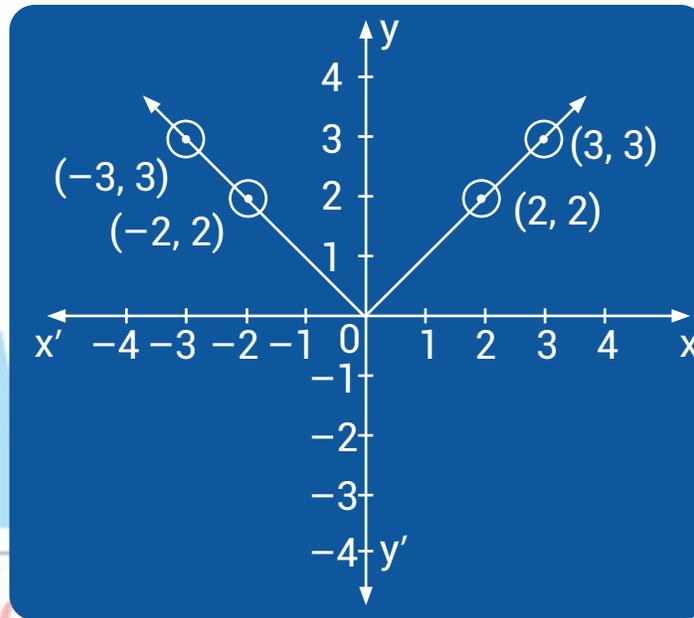
'4' is 4 units away from zero and '-4' is also 4 units away from zero.

$$|4| = 4 \text{ and } |-4| = 4$$

Handy Graphs

$$y = |x|$$

x	0	2	-2	3	-3
y	0	2	2	3	3

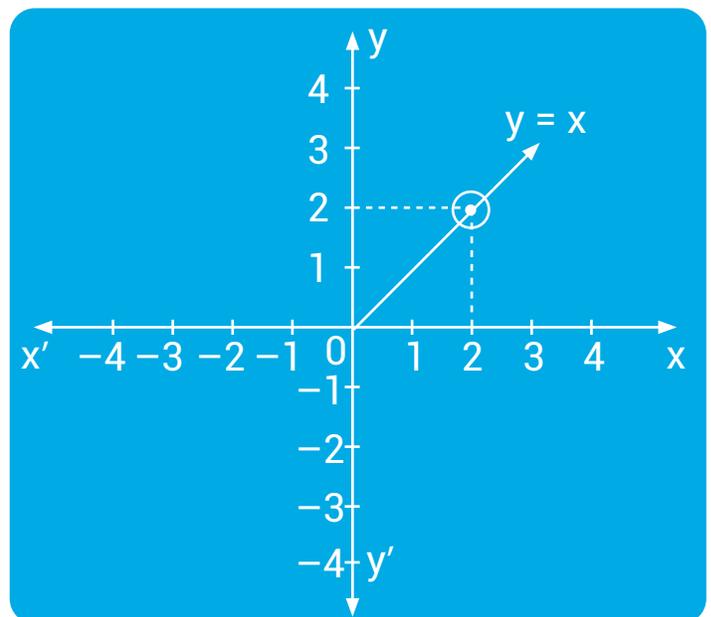
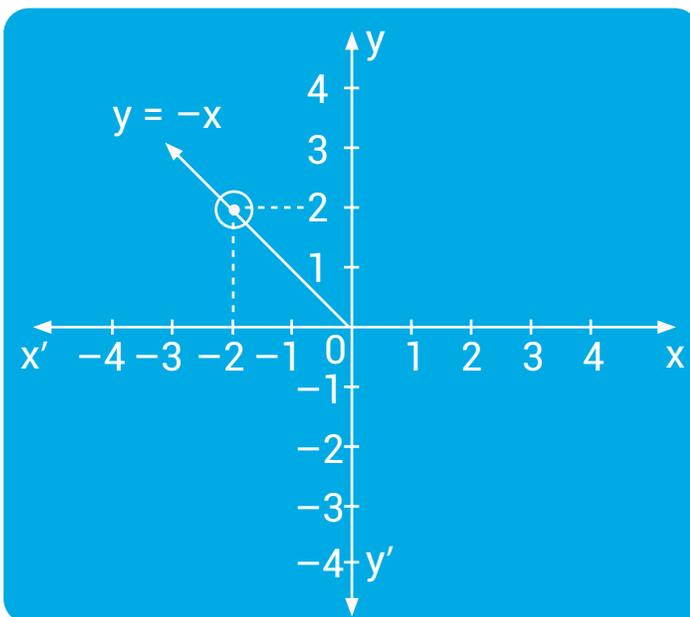


$$y = -x, \text{ when } x < 0$$

x	-2	-3	0
y	2	3	0

$$y = x, \text{ when } x \geq 0$$

x	0	2	3
y	0	2	3



Puzzle

1 Rupee Puzzle

Rahul had some money, he gave one rupee to beggar and half of the remaining money was spent by him. Same thing happened second day; he gave one rupee to beggar from remaining money of first day and spent half of the remaining money. This pattern continued for 6 days. On the sixth day, when he gave one rupee to the beggar, he found that there was no money left with him.



? How much money Rahul had on the first day?

Magical Pond Puzzle

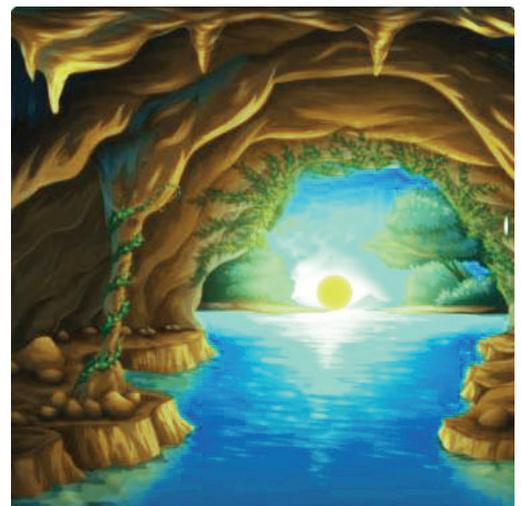
You visit an island that has 3 caves near a magical pond. Before you visit a cave, you have to swim in the pond.

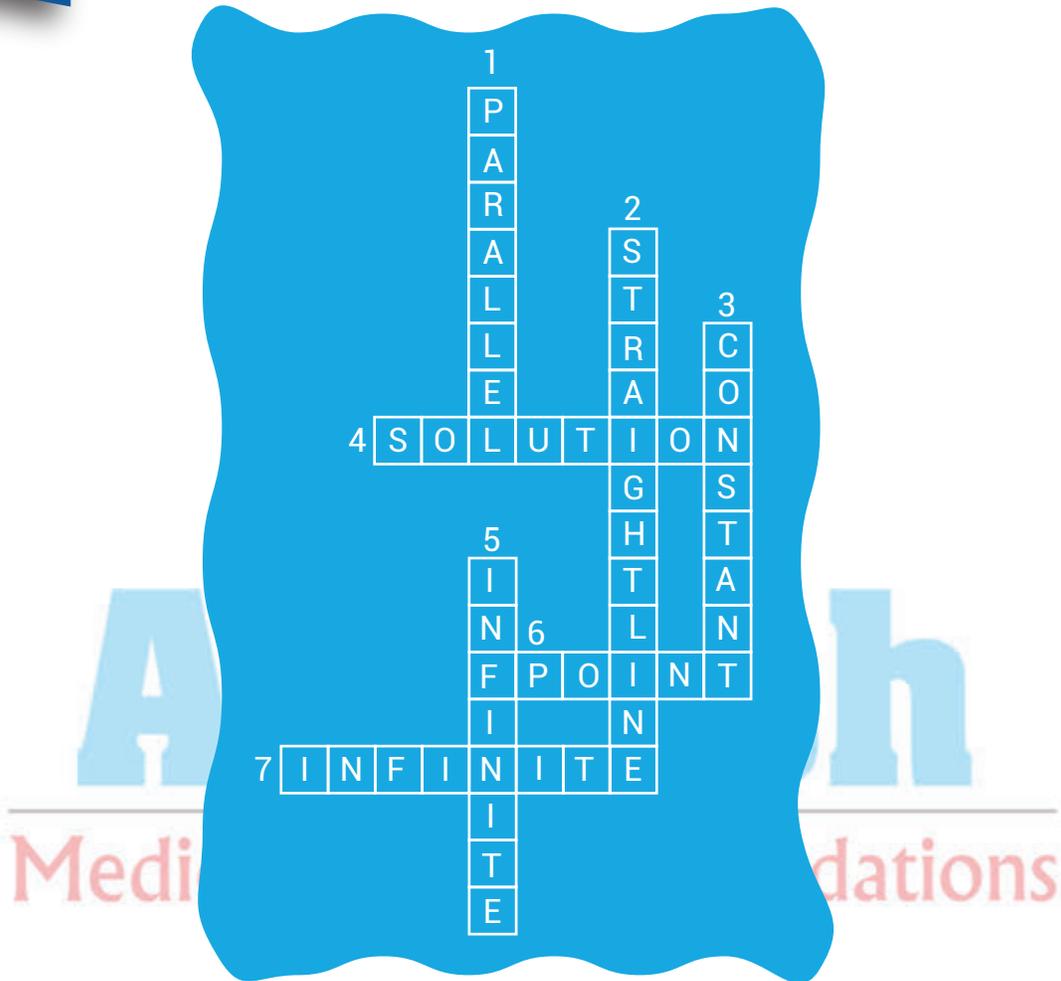
Each time you swim in the pond, the number of flowers you are carrying magically triples. You place an equal number of flowers in each cave you visit. At the end, you have no flowers.

? What is the least number of flowers you could have started with?

Cheat Code:

(Hint: You start with a positive number of flowers and you place a whole number of flowers at each cave)





Puzzle (Answer)

1. Let the amount of money Rahul had in beginning be ₹ x

$$\text{Amount he spent on himself} = \left(\frac{x-1}{2}\right)$$

Money remaining after first day

$$= (x-1) - \left(\frac{x-1}{2}\right) = \left(\frac{x-1}{2}\right)$$

After giving ₹ 1 to the beggar again he had $= \left(\frac{x-1}{2} - 1 \right) = \frac{x-3}{2}$

He spent on himself $= \left(\frac{x-3}{2} \right) / 2 = \left(\frac{x-3}{4} \right)$

Money remaining after 2nd day $= \left(\frac{x-3}{2} - \frac{x-3}{4} \right) = \frac{x-3}{4}$

Similarly, Money remaining after 3rd day $= \frac{x-7}{8}$

Money remaining after 4th day $= \frac{x-15}{16}$

Money remaining after 5th day $= \frac{x-31}{32}$

Now, on 6th day, after giving ₹ 1 to the beggar, he had no money left.

So, $\frac{x-31}{32} = 1$

∴ $x - 31 = 32$

∴ $x = 63$

So, total money he had on the first day is ₹ 63.

2.

x	Start
3x	Pond (triple the flowers)
3x - y	I st cave (leave y flowers)
9x - 3y	Pond (triple the flowers)
9x - 4y	II nd cave (leave y flowers)
27x - 12y	Pond (triple the flowers)
27x - 13y	III rd cave (leave y flowers)

After placing flowers at the 3rd cave, I have no flowers.

$$27x - 13y = 0$$

$$x = \left(\frac{13}{27} \right) y$$

The smallest value for y is 27, for which the least value of x is 13.

Cross word

Force and Laws of Motion

Across

1. Quantity of motion contained in a body

3. CGS unit of force

5. Swimming is possible due to Newton's _____ law of motion

6. Mass is a measure of _____

9. Change in linear momentum

Down

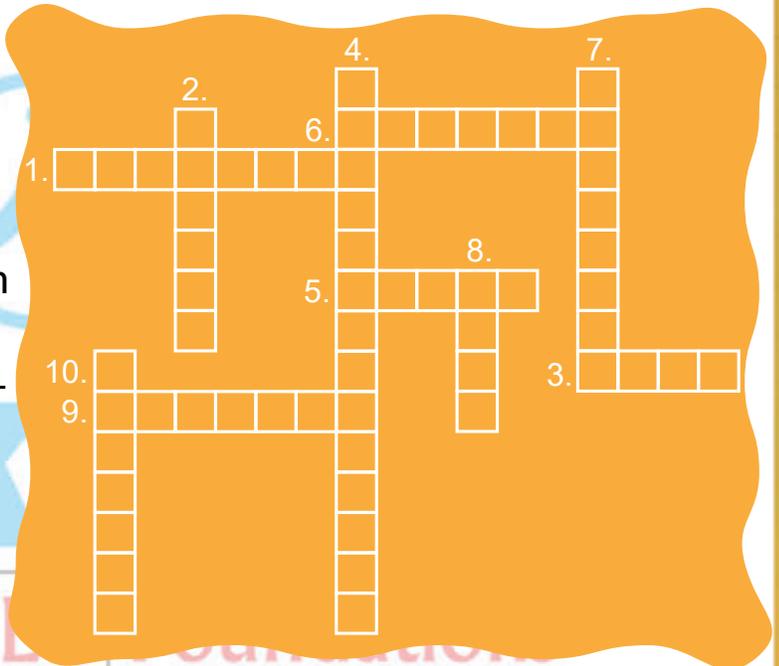
2. Unit of force

4. Action and reaction force act _____

7. Forces which produce no net acceleration

8. When a carpet is beaten with a stick, dust particles come out due to inertia of _____

10. Type of friction which comes into play when one surface moves over the other



Interesting Facts

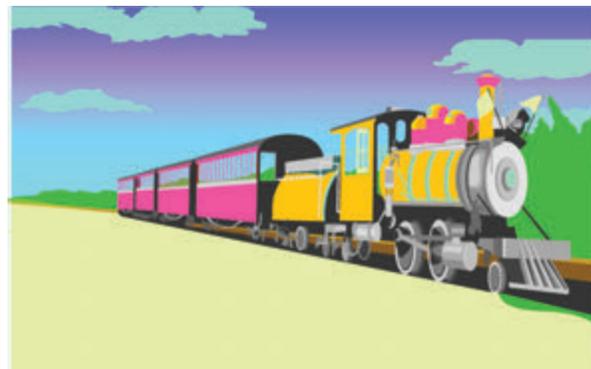
1. Due to Newton's First Law of motion, when astronauts let go of a tool in space, it will stay in one spot until they grab it. If the astronaut throws the tool, it will travel in a straight line and never stop. The tool will stay in one place or keep moving in same direction with same speed forever because there is no gravity acting on it in space.



2. When you go upside down in a roller coaster in a loop, a special force acts which is called centripetal force and it keeps you in your seat from falling out.



3. In physics, we have a **maglev** (magnetic levitating) train which moves using force of magnetism. Magnets under the train and on track push each other, making train hover upto nearly 10 mm above the track and making it reach upto speed of 580 kmph.





Do you know about the famous spell of Harry Potter- Wingardium Leviosa which is the Levitation spell. Well this spell made the feather fly with the flick of the wand. It was inspired from magnetic levitation.



Cross word

KEY

Aakash

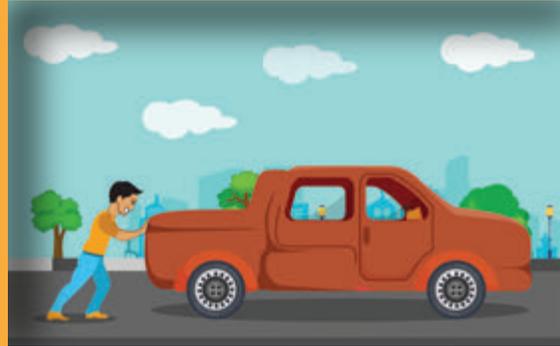
Foundations

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	N		A	I	E
			N	R	C
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Myth-Buster

1. An object is hard to push because it is heavy.

A heavy object is hard to push. But this is not because of its weight, instead it is because of its inertia which is the property of mass of an object by virtue of which it resists its change in motion.



2. Lighter objects like feather fall slower than heavier ones like hammer in vacuum.

All objects experience air resistance when moving through air and air resistance is proportional to area of an object in direction of motion. For light objects, like a feather, greater surface leads to them experiencing greater air resistance as compared to heavier objects like hammer having lesser surface area. But in vacuum there is no air resistance, so they fall at the same rate.



Cross word

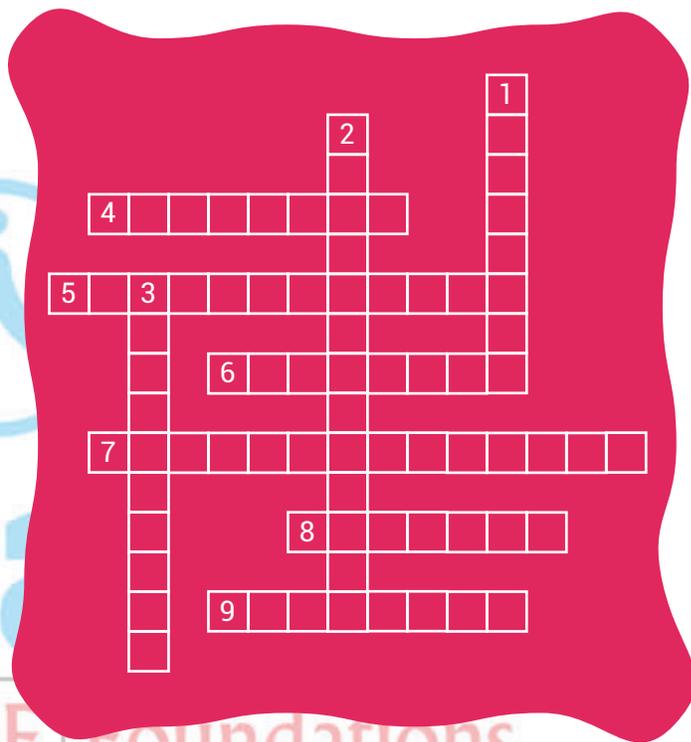
Is Matter Around Us Pure?

Down

1. Substances having same kind of atoms. [8]
2. Phenomenon of scattering of light by the particles of colloidal solution. [7, 6]
3. Mixture in which particles can be seen by naked eyes. [10]

Across

4. Substance in which different atoms are combined in a definite proportion. [8]
5. Technique used for the separation of two miscible liquids. [12]
6. Mixtures having dispersed phase and dispersion medium. [8]
7. Technique used for the separation of cream from milk. [14]
8. Substance left on filter paper after filtration. [7]
9. Liquid obtained after filtration. [8]



Quiz

Q.3 Identify the non-metal which is a good conductor of electricity.

- (1) Copper
- (2) Graphite
- (3) Aluminium
- (4) Silver

Q.4 A mixture of iodine and ammonium chloride can be separated by

- (1) Sublimation
- (2) Magnetic separation
- (3) Evaporation
- (4) Solvent extraction by water

Q.5 Which of the following will not show Tyndall effect ?

- (1) Blood
- (2) Milk
- (3) Shaving cream
- (4) Sugar solution

Cross word

KEY

- | | | |
|-------------------------|-------------------------|---------------------|
| 1 Elements | 2 Tyndall effect | 3 Suspension |
| 4 Compound | 5 Distillation | 6 Colloids |
| 7 Centrifugation | 8 Residue | 9 Filtrate |

(QUIZ) KEY

- | | | |
|----------------|----------------|----------------|
| Q.1 (2) | Q.2 (3) | Q.3 (2) |
| Q.4 (4) | Q.5 (4) | |





DID YOU KNOW?

Interesting Facts

1. There is a solvent called **aqua regia**, which can dissolve noble metals like gold and platinum.
2. You can't see the path of a beam of light when passed through a true solution.
3. Solutions can be solid, liquid or gas, e.g. copper impurities in gold can be regarded as solid solution, alcohol in water is liquid solution whereas air which is homogeneous mixture of gases is gaseous solution.
4. Mixtures are combination of substances that are mixed together, but not combined chemically.
5. Mouthwash is a homogeneous mixture. It has antimicrobials, alcohol, essential oils and other ingredients in it, but you can't see the individual constituents.
6. Copper is a natural antibacterial agent. So, frequently touched surfaces can be made using copper.
7. Both diamond and graphite are entirely made up of carbon.
8. One inch of rain is approximately equal to 10 inches of snow.
9. Water expands when freezes, unlike other substances.
10. Glass is a supercooled liquid.





Word Search

Tissues

- i. Non-keratinized stratified squamous epithelium is found in this
- ii. Tessellated/ Pavement epithelium is found in this region of lungs.
- iii. Your voice is attributed to this little cartilage, found in your neck.
- iv. This part is composed of nervous tissue, that controls the reflex action.
- v. Pillar-like epithelium having finger-like projections on top, helping in absorption is found here.
- vi. Bone that protects your delicate brain.
- vii. Connective tissue that flows through heart.
- viii. C-shaped cartilaginous rings ensure that you never stop breathing, support this organ in your neck.
- ix. Tissue that absorbs fat from your intestines & circulates like blood.
- x. You lived in this distensible bag made of smooth muscle tissue of your mother for 9 months.
- xi. The tissue that forms a cushion around your heart.
- xii. Packaging tissue that spread throughout the body.

I	W	C	L	Y	M	P	H	A	N
N	Z	R	A	H	D	T	L	R	J
T	F	A	R	C	O	R	N	E	A
E	A	N	Y	D	O	A	G	O	A
S	P	I	N	A	L	C	O	R	D
T	H	U	X	J	B	H	Z	F	I
I	I	M	E	Z	W	E	L	L	P
N	U	L	P	Y	H	A	D	T	O
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S	A	L	V	E	O	L	I	P	E
Y	L	B	A	R	E	O	L	A	R



Historical Facts

■ Hey tree! How old are you?

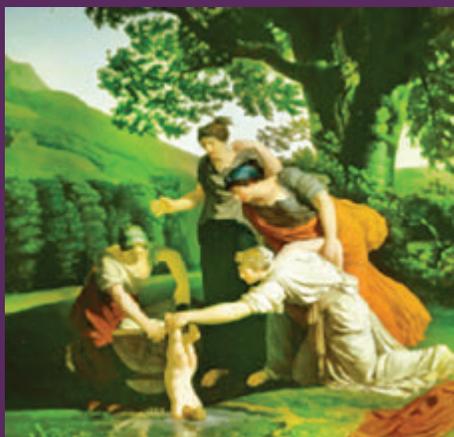
Have you heard about the rings formed inside the trees? Did you know that these rings can tell us not only the age of the tree but also what the weather was like during each year of the tree's life! The lighter rings are wood that grew in the spring and early summer, whereas the darker rings represent wood that grew in the late summer and fall. One light ring plus one dark ring equals one year of the tree's life!

And guess what! These rings are nothing but the old xylem getting crushed inside while the new one formed as outer layer! Now does it make sense to call the **Xylem as wood!!**



■ Oh! My Achilles' Heel!

Our body is a wonderful combination of organs and some scientists have a quirky way of naming them! One such organ is a tendon in our heel, that's been named as Achilles' Tendon, after a great Greek mythology warrior, famous as Achilles. The thing is, when he was born, his mother had dipped him into the River Styx, holding him by the heel, in order to make him Immortal! Yes! You read it right! So, he became invincible and no one was able to kill him! He had won every war, until his last became the Trojan war, where his enemies had discovered his secret. It was true that he was immortal but since his heel was not dipped completely in the river, his heel was mortal & was therefore was his weakness! An arrow shot on heel, was what killed him! So, now you know where your Achilles' tendon is! But what's your Achilles' heel?





Fun Facts

- Most abundant tissue in the body is connective tissue, followed by muscle tissue.
- Largest organ (Skin) is made up of epithelial tissue.
- Muscles account for 40% of your body weight.
- Enamel of teeth is produced before birth only, it means that we are born with our teeth, which are hiding inside just to descend later!
- If all your muscles could pull in one direction you could create a force of 25 tons.
- Eye muscles are the busiest muscles in the body, as they move more than 100,000 times in a day.
- Octopus has 9 brains, 3 hearts & blue blood. It's a combination of colorful tissues!
- Plant tissue is totipotent! It means that any living plant cell can multiply to give rise to a new plant. In animals there is one such cell, i.e., Zygote!
- The only joint-less bone in the human body is the Hyoid bone AKA Tongue bone!
- Children below 3 years have twice as many synapses as adults & that is the reason they learn better!
- Speed of a nerve impulse can range from 1 mph to about 268 mph (Miles per hour).
- Virus cannot grow in the tips of plants (in meristems), so the tips of plants can be used to produce virus free plants by tissue culture!



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Mnemonics

◆ **M-T-B** (Muscle-Tendon-Bone)

◆ **B-L-B** (Bone- Ligament- Bone)

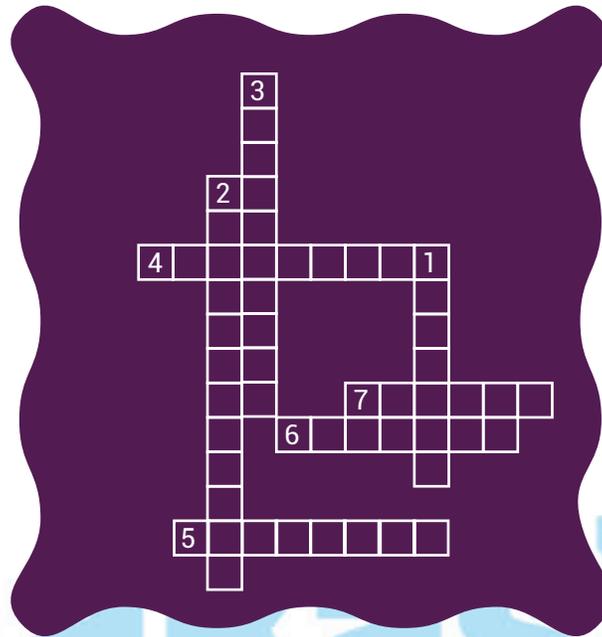
Answers

1.
 - i. CORNEA
 - ii. ALVEOLI
 - iii. LARYNX
 - iv. SPINAL CORD
 - v. INTESTINE
 - vi. CRANIUM
 - vii. BLOOD
 - viii. TRACHEA
 - ix. LYMPH
 - x. UTERUS
 - xi. ADIPOSE
 - xii. AREOLAR

I	W	C	L	Y	M	P	H	A	N
N	Z	R	A	H	D	T	L	R	J
T	F	A	R	C	O	R	N	E	A
E	A	N	Y	D	O	A	G	O	A
S	P	I	N	A	L	C	O	R	D
T	H	U	X	J	B	H	Z	F	I
I	I	M	E	Z	W	E	L	L	P
N	U	L	P	Y	H	A	D	T	O
E	K	N	M	U	T	E	R	U	S
S	A	L	V	E	O	L	I	P	E
Y	L	B	A	R	E	O	L	A	R

Cross word

India – Size and Location



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Down

1. Area wise what is the position of India in the world?
2. Which Indian state was bifurcated into two Union Territories in 2019?
3. India shares longest international boundary with

Across

4. In the North and North-East , India is bounded by
5. Standard Meridian of India passes through
6. Eastern most point of India
7. Second largest country in the world



Mnemonics

1. Ocean from largest to smallest :



2. Continents :

North America – Never

South America – Smile

Asia – An

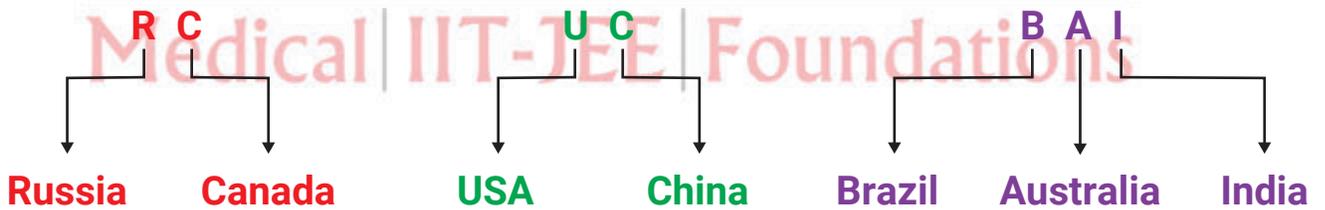
Antarctica - Alligator

Europe – Ever

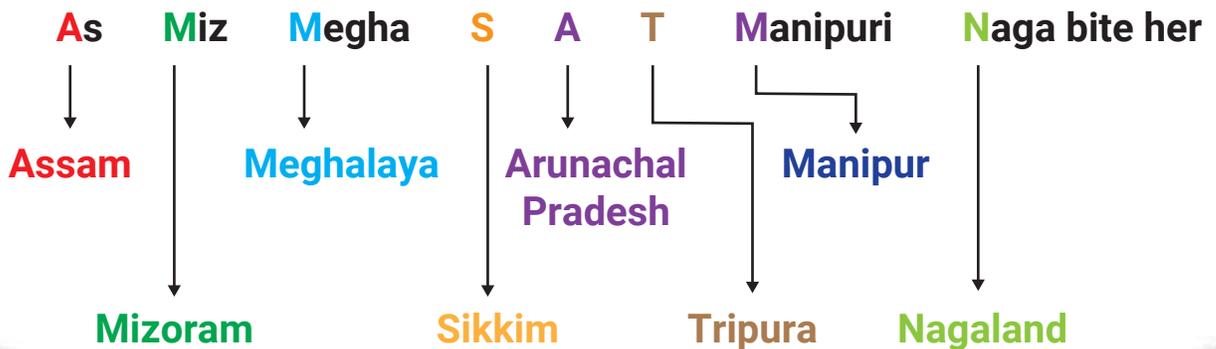
Africa – At

Australia – Angry

3. Countries from largest to smallest :



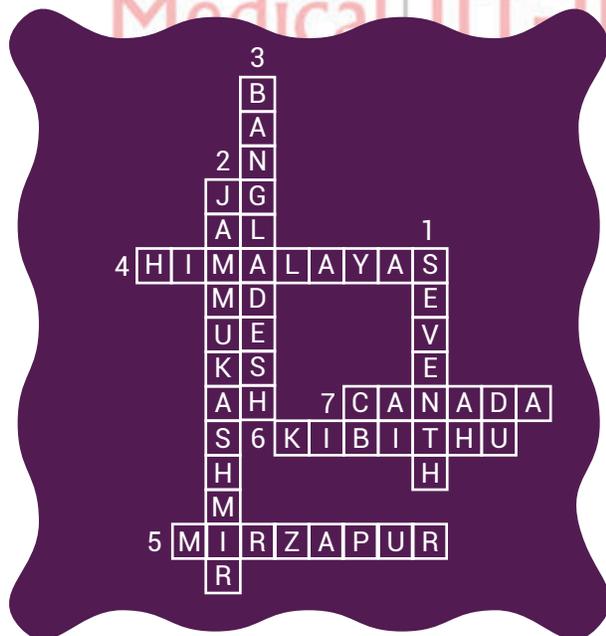
4. North Eastern States :



Quiz

- Q.1** A major latitude that divides the Indian mainland into almost two equal parts :
- (1) Arctic Circle (2) Equator
(3) Tropic of Capricorn (4) Tropic of Cancer
- Q.2** India is separated from Sri Lanka by
- (1) Palk Strait (2) Indian Ocean
(3) Gulf of Kutchh (4) Arabian Sea
- Q.3** The time lag between GMT to Indian Standard Time is
- (1) Five hours (2) Five hours thirty minutes
(3) Five hours ten minutes (4) Five hours twenty minutes

Answer (Crossword)



Answer (Quiz)

Q.1

(4)

Q.2

(1)

Q.3

(2)



Active and Passive Voice

Active: I read a book.

Q.1 **Passive** : A book _____ by me.

- | | |
|-------------------|------------------|
| (a) has been read | (b) was read |
| (c) being read | (d) will be read |

Active: They have insulted us.

Q.2 **Passive** : We _____ by them.

- | | |
|------------------------|------------------------|
| (a) have been insulted | (b) has been insulted |
| (c) were insulted | (d) are being insulted |

Active: Close the shop.

Q.3 **Passive** : It is time for the shop _____.

- | | |
|------------------|----------------------|
| (a) to close | (b) has closed |
| (c) to be closed | (d) had to be closed |



Active : He will assign the work tonight.

Q.4 **Passive :** The work _____ by him tonight.

- (a) will be assigned (b) will have been assigned
(c) will have to be assigned (d) would be assigned

Active : He is plucking the flower.

Q.5 **Passive :** Flowers _____ plucked by him.

- (a) have (b) is being
(c) was being (d) are being

Active : The farmers had ploughed the fields before the rains set in.

Q.6 **Passive :** The fields _____ ploughed by the farmers before the rains set in.

- (a) has been (b) was being
(c) had been (d) have been

Answer

Q.1 (b)

Q.2 (a)

Q.3 (c)

Q.4 (a)

Q.5 (d)

Q.6 (c)



Number Riddles

Question-1

How would you place the number 10, 20, 30, 40, 60, 70 and 80 so that the sum of each side of the square is 150?

50		

Question-2

Find A, B, C and D.

A	+	B	=	16
+		+		+
A	+	8	=	14
=		=		=
12	+	C	=	D

Solution-1

70	20	60
50		10
30	40	80

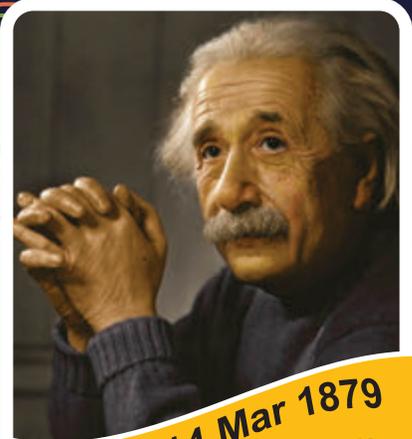
Solution-2

$$\begin{aligned} A &= 6 \\ B &= 10 \\ C &= 18 \\ D &= 30 \end{aligned}$$

NOBEL PRIZE WINNER GERMAN PHYSICIST

Happy Birthday

Albert Einstein



Born - 14 Mar 1879
Died - 18 Apr 1955

Law of Photoelectric Effect

Developed the world's most famous equation $E = mc^2$ and the General Theory of Relativity - one of the two pillars of modern physics.

In 1921, he was awarded the Nobel Prize in Physics "for his services to theoretical physics and especially for his discovery of the law of Photoelectric Effect". The latter was pivotal in establishing quantum theory.

OUR RESULTS 2024

AIR 1

NEET (UG) 2024

State Topper Delhi	State Topper Uttar Pradesh	State Topper West Bengal	State Topper Uttar Pradesh	State Topper Maharashtra	State Topper Rajasthan
Mridul M Anand 3 Year Classroom	Ayush Naugraiya 4 Year Classroom	Arghyadeep Dutta 2 Year Classroom	Aryan Yadav 1 Year Classroom	Palansha Agarwal 2 Year Classroom	Iram Quazi 1 Year Classroom

JEE (Advanced) 2024

AIR 25	AIR 67	AIR 78	AIR 93	AIR 95
Rishi Shekher Shukla 2 Year Classroom	Krishna Sai Shishir 4 Year Classroom	Abhishek Jain 4 Year Classroom	Hardik Aggarwal 2 Year Classroom	Ujjwal Singh 4 Year Classroom

1430 Students Scored Above MAS

344

Classroom Students
Qualified in
NSEs* 2023-24

(Group A & B)
34+30
NSEA*

156
NSEB*

72
NSEC*

23
NSEP*

29
NSEJS*

Aakashians Qualified for INO-2024



Diptanshu Sharma
NSEB | NSEC | NSEP



Priyanshu Sarkar
NSEB | NSEC | NSEP



Mridul Garg
NSEB | NSEC | NSEP



Zaman Hussain
NSEA | NSEC | NSEP



Shubhradeep Paul
NSEA | NSEC | NSEP



Samvit Shandilya
NSEA | NSEC | NSEP

and many more...

*NSEA-National Standard Examination in Astronomy | NSEB-National Standard Examination in Biology | NSEC-National Standard Examination in Chemistry
NSEP-National Standard Examination in Physics | NSEJS-National Standard Examination in Junior Science | INO-Indian National Olympiad

Aakashians Qualified for OCSC/IMOTC-2024

32

Classroom Students
Qualified
in INOs 2024



Aneesh Shastri
Qualified INAO



Sanvi Jain
Qualified INChO



Mridul M Anand
Qualified INBO



Zaman Hussain
Qualified INMO



Sushant Agarwal
Qualified INJSO



Archit Kumar
Qualified INAO Jr

OCSCs - Orientation cum Selection Camps | IMOTC - International Mathematical Olympiad Training Camp

and many more...

Aakashians Qualified for RMO from Classroom Programs

869

Classroom Students
Qualified
in IOQM 2024



Class VIII Joish Achyuta
2 Year Classroom



Class VIII Pranava NS
3 Year Classroom



Class VIII Bruteshwar Rajguru
3 Year Classroom



Class VIII Hardik Mishra
2 Year Classroom



Class VIII Hardik Dhariwal
2 Year Classroom



Class IX Dhanush Damu
4 Year Classroom

IOQM - Indian Olympiad Qualifier in Mathematics

and many more...

Board Exam Results 2024

Top Performers from Class X



Marks
500
500

Devidyuti K Pisharody
CBSE



Marks
499
500

P Harini
CBSE



Marks
498
500

Jiya Dugar V
CBSE

and many more...

Top Performers from Class XII



Marks
496
500

Ananthan R
CBSE



Marks
495
500

Ansh Agrawal
CBSE



Marks
495
500

Himanshu Agarwal
CBSE

and many more...



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