Aakash

Medical | IIT-JEE | Foundations

KNOWLEDGE BYTES

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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

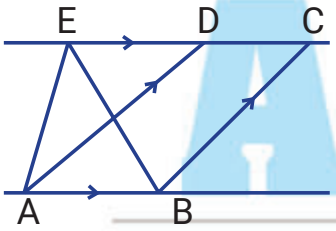
Areas of Parallelograms and Triangles

Crossword

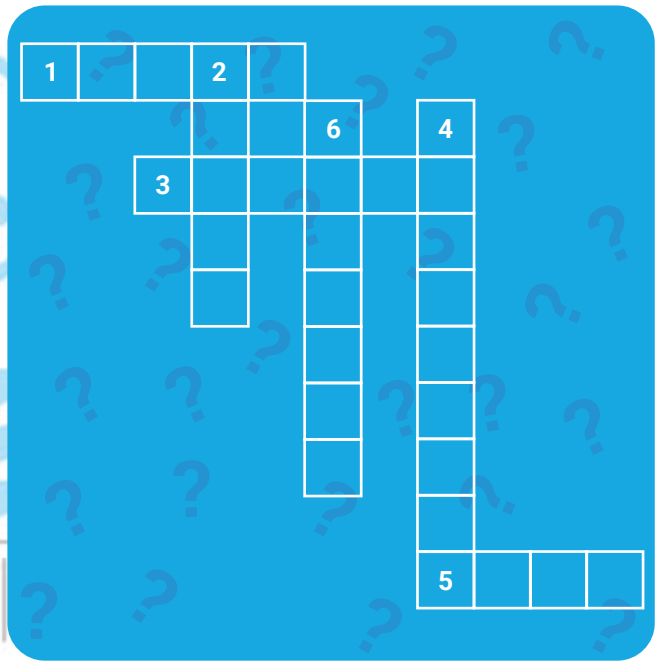
ACROSS

1. Two parallelograms on the same base and in between the same parallels have _____ area.

3. _____ divides the triangle into two triangles of equal area.

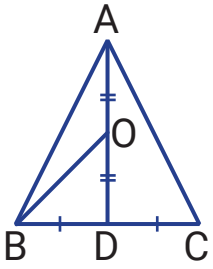
5. 

If area (ΔABE) = K × area (□ABCD) then, K equals _____

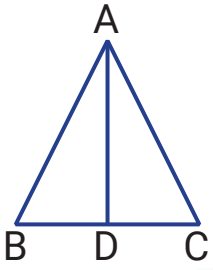


DOWN

2. _____ of two congruent triangles are always equal.

4. 

If area (ΔBOD) = K × area (ΔABC) then, K = _____

6. 

If $\frac{BD}{DC} = \frac{5}{7}$ and

area (ΔABC) = 36 cm^2, then

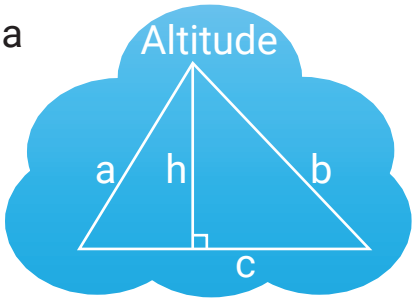
area (ΔABD) = _____ cm^2

Useful Formulas Involving Triangles

Length of Altitude, Median and Angle Bisector

Altitude

The formula for the length of altitude of a triangle is derived from Heron's formula :

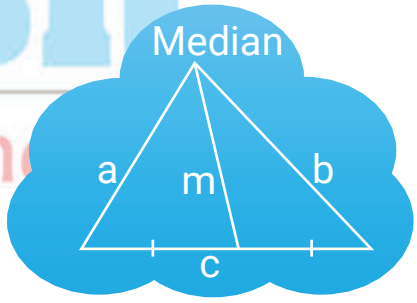


$$h = \frac{2\sqrt{s(s-a)(s-b)(s-c)}}{c}$$

where $s = \frac{1}{2}(a + b + c)$ and a, b, c are the lengths of the sides of the triangle.

Median

The formula for the length of a median of a triangle is :

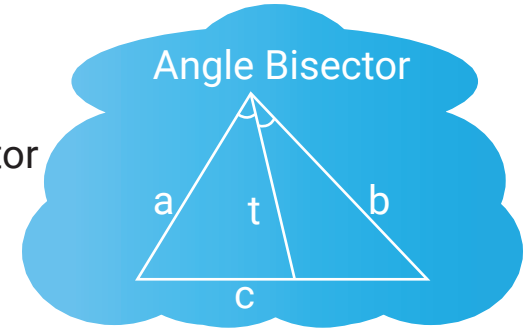


$$m = \frac{1}{2}\sqrt{2a^2 + 2b^2 - c^2}$$

where a, b, c are the lengths of the sides of the triangle.

Angle Bisector

The formula for the length of an angle bisector of a triangle is :



$$t = \sqrt{ab\left(1 - \frac{c^2}{(a+b)^2}\right)}$$

where a, b, c are the lengths of the sides of the triangle.

Interesting Facts

1

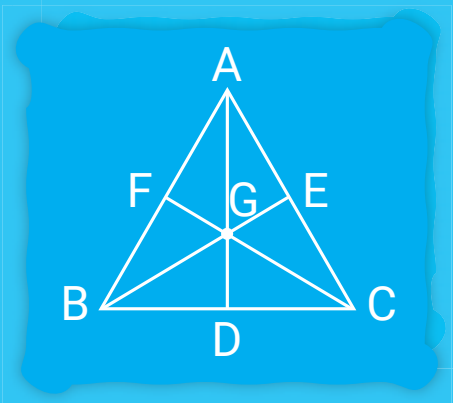
If AD, BE and CF are the medians of ΔABC

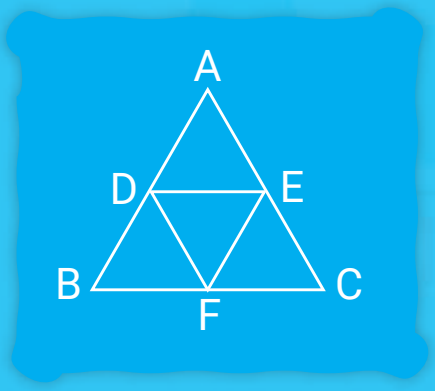
$\therefore$ ar (ΔAGF) = ar (ΔAGE)

= ar (ΔGEC) = ar (ΔGCD)

= ar (ΔGDB) = ar (ΔBGF)

$= \frac{1}{6}$ (ar (ΔABC))





2

If D, E and F are the midpoints of sides BA, AC and CB respectively, then

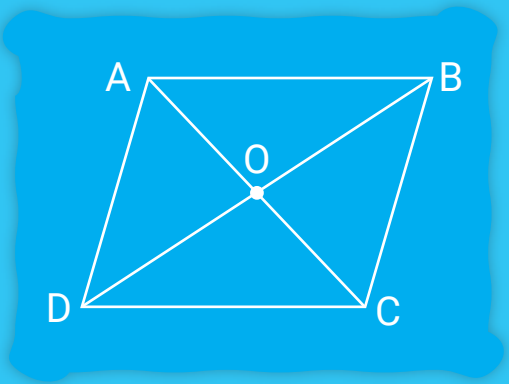
ar (ΔDEF) = $\frac{1}{4}$(ar (ΔABC))

3

In a parallelogram ABCD, O is any point inside it, then

ar (ΔAOB) + ar (ΔCOD)

= ar (ΔAOD) + ar (ΔBOC)

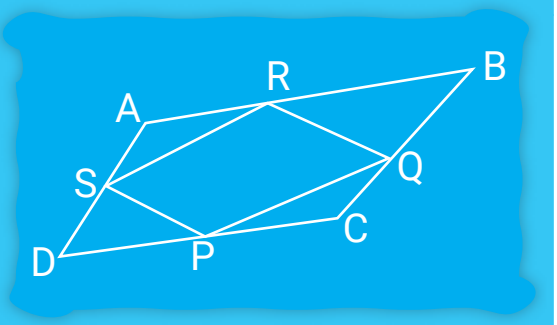


4

If P, Q, R and S are the midpoints of sides CD, BC, AB and AD respectively of parallelogram ABCD

then,

$ar(\text{parallelogram PQRS}) = \frac{1}{2}(ar(ABCD))$



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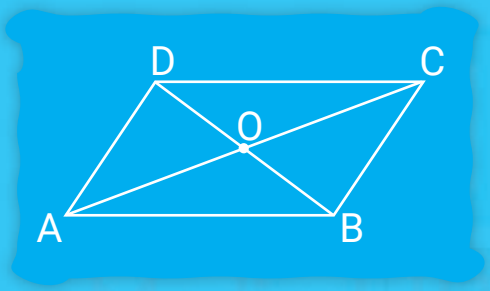


AC and BD are the diagonals of a parallelogram ABCD

Hence, $ar(\Delta AOB) = ar(\Delta BOC) = ar(\Delta COD)$

$= ar(\Delta AOD)$

$= \frac{1}{4}(ar(||^{gm} ABCD))$

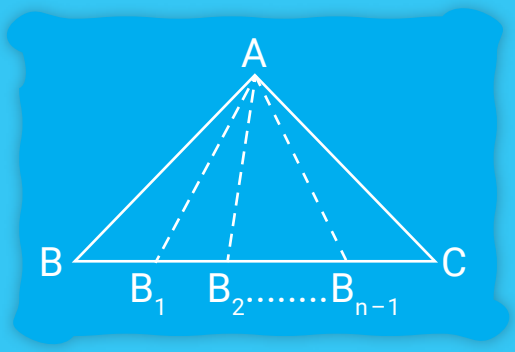
6

$\therefore$ In ΔABC, side BC has been divided into n-equal parts.

Then, $ar(\Delta ABB_1) = ar(\Delta AB_1B_2) = ...$

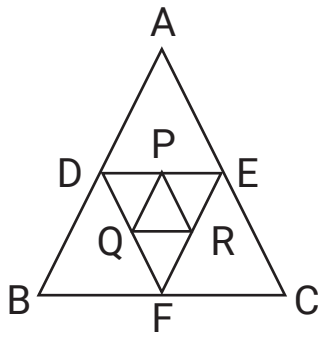
$= ar(\Delta AB_{n-1}C)$

$= \frac{1}{n}(ar(\Delta ABC))$



Area Quiz

1

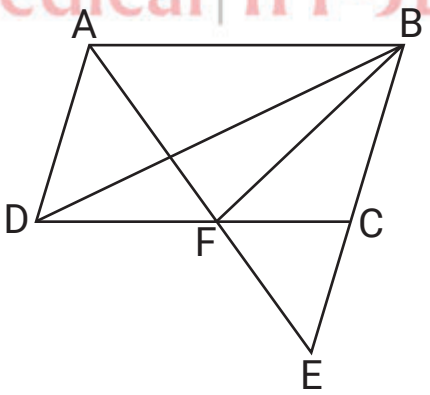


If D, E and F are the mid points of sides of ΔABC, P, Q and R are mid points of sides of ΔDEF such that area $\Delta PQR = K \times$ area (ΔABC), then K equals

(a) $\frac{1}{4}$ (b) $\frac{1}{8}$

(c) $\frac{1}{9}$ (d) $\frac{1}{16}$

2

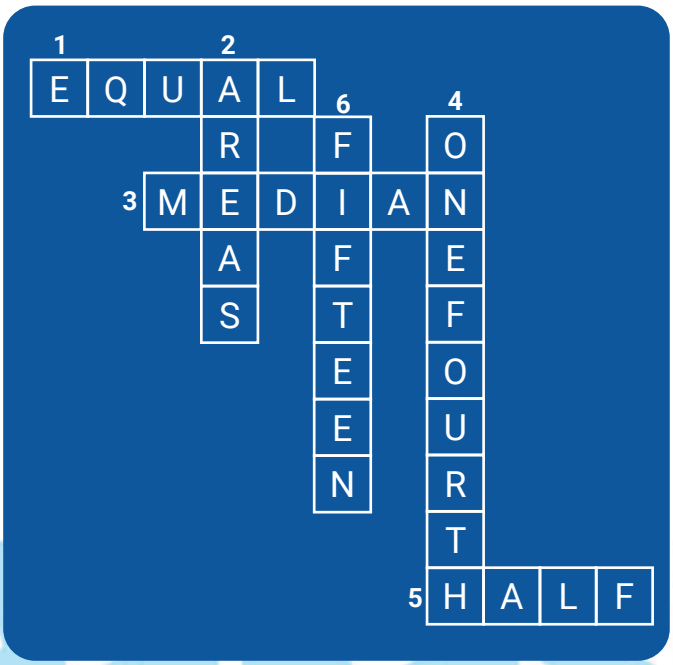


ABCD is a parallelogram in which BC is produced to E such that CE = BC. AE intersects CD at F. If area $(\Delta DFB) = 13\ cm^2$, then the area of parallelogram ABCD is

(a) $50\ cm^2$ (b) $52\ cm^2$

(c) $26\ cm^2$ (d) $39\ cm^2$

Answer (Crossword)



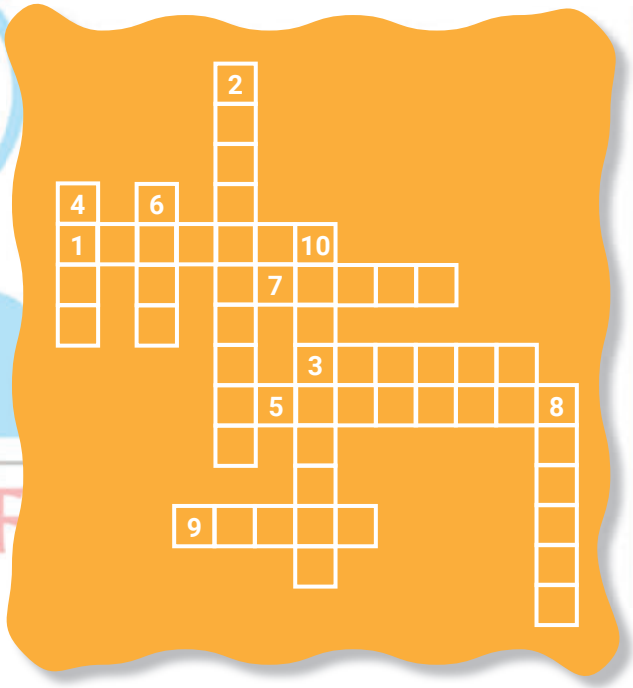
Answer (Area Quiz)

1 **Ans.** (d) $\frac{1}{16}$

2 **Ans.** (b) 52 cm^2

Work and Energy

Crossword



ACROSS

1. ____ potential energy is due to change in the shape of the body.
3. Energy is a ____ quantity.
5. When a body is thrown up, work done by gravity on the body is ____.
7. Work is said to be done when the ____ acting on a body produces motion in it.
9. The amount of work done in one second.

DOWN

2. A solar cell converts light energy into ____ energy.
4. Work done by the force of gravity on the Moon around the Earth is ____.
6. The unit of power is ____.
8. The ability to do work.
10. Total energy of the universe remains ____.

Facts About Energy

1. The word energy comes from the Greek word energeia.
2. In space when an object is accelerated to a certain speed then the force is removed from it. But, the object doesn't lose its speed because there is no air friction in space. So, work done by object moving in space is also zero.
3. An object that falls from a height also performs work due to gravitational force.
4. Most types of energy are either a form of kinetic energy or potential energy.
5. Energy can be transformed from one form to another.

Quiz

1. When a body falls freely under gravity then the work done by the gravity is
   (a) Positive (b) Negative
   (c) Zero (d) Infinity

2. When a gas filled in a cylinder fitted with a movable piston is allowed to expand the work done by the gas is positive
   (a) True (b) False

3. When a body slides against a rough horizontal surface, the work done by friction is ____
   (a) Positive (b) Zero
   (c) Negative (d) Constant

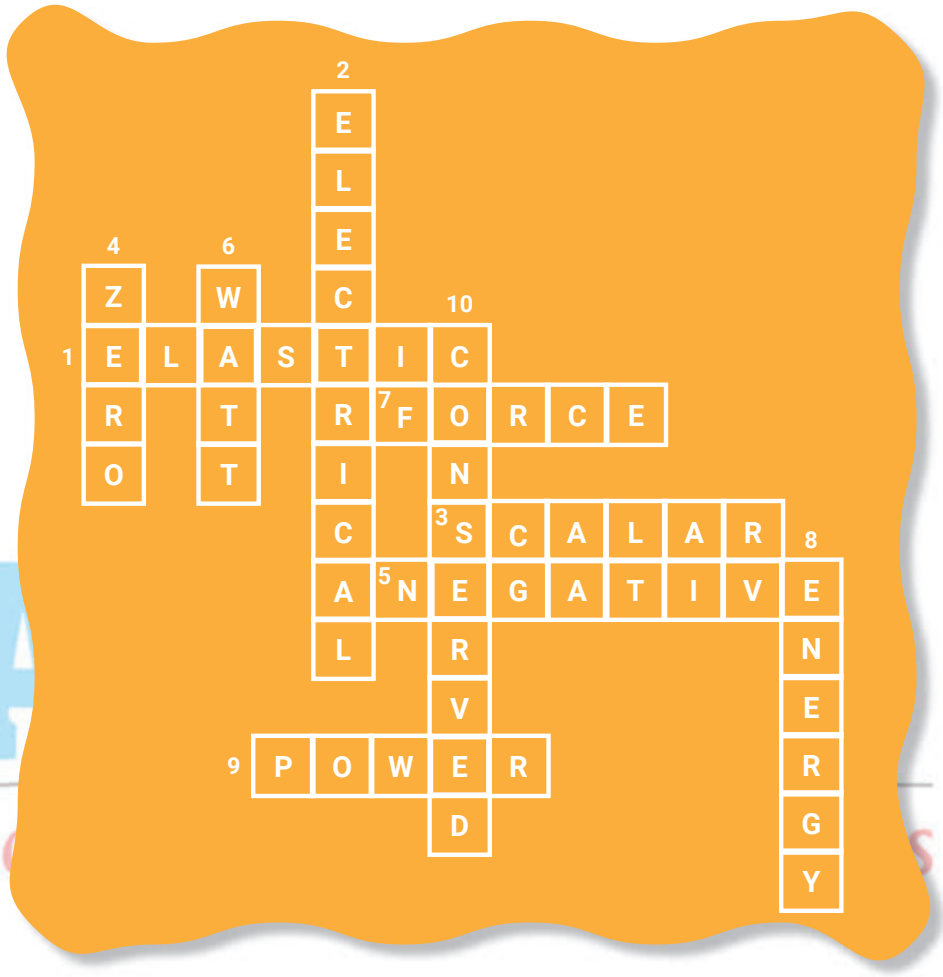
4. When a body is lifted the work done by the gravitational force is positive
   (a) True (b) False

5. For a body moving in a circular path, the work done by the centripetal force is ___
   (a) Negative (b) Positive
   (c) Constant (d) Zero

6. When a coolie walks on a horizontal platform with a load on his head, the work done by the coolie on the load is zero
   (a) True (b) False

7. A gardener pushes a lawn roller, through a distance of 20 m. If he applies a force of 20 kg wt in a direction inclined at 60° to the ground. Find the work done by him. ($g = 9.8\ m/s^2$)
   (a) 400 J (b) 1960 J
   (c) 250 J (d) 2514 J

Answer (Crossword)

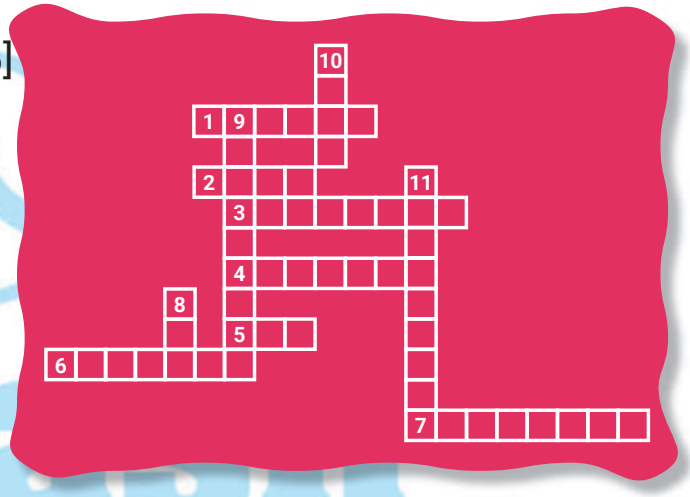


Answer (Quiz)

1. (a) Positive
2. (a) True
3. (c) Negative
4. (b) False
5. (d) Zero
6. (a) True
7. (b) 1960 J

Atoms and Molecules

ACROSS



1. Positively charged chemical species. [6]
2. Amount of the substance which has mass equal to its gram atomic mass. [4]
3. The smallest particle of compound which can exist in free state. [8]
4. Cs is symbol of _____. [7]
5. Valency of magnesium in MgO is _____. [3]
6. Combining capacity of an element. [7]
7. Number of moles of the solute dissolved in per litre of the solution. [8]

DOWN

8. Electrically charged chemical species. [3]
9. Total number of atoms constituting a molecule. [9]
10. The smallest particle of an element. [4]
11. Metal with valency three. [9]

Jumbled Words

The underlined word in the following sentences have been jumbled up. Write them in correct form.

1. Molecules that have more than two atoms in them are known as oytcimpalo molecules.

2. Atomicity of pktrnoy is one.

3. Atoms of different elements join together in a tcaonnst pooorrtinp.

4. tmoalyli is the number of moles of the solute dissolved in per 1000 g or 1 kg of the solvent.

5. A chemical formula represents iminsopcoto of a molecule.

6. Negatively charged species are called snoian.

7. The term 'atom' was coined by tcmdeoirus.

Quiz

Q.1 Which of the following statements is not true about an atom?

(a) Atoms of different elements are identical in mass.
(b) Atoms are the basic units from which molecules and ions are formed.
(c) Atoms are always neutral in nature.
(d) Atoms aggregate in large numbers to form the matter.

Q.2 Which of the following contains maximum number of molecules?

(a) 1 g CO_2
(b) 1 g N_2
(c) 1 g H_2
(d) 1 g CH_4

Q.3 What is the molecular mass of H_2SO_4 ?

(a) 64 u
(b) 98 u
(c) 36 u
(d) 56 u

Q.4 Select the relation between atomic number, mass number and number of neutrons.

(a) Mass number = Atomic number + Number of neutrons
(b) Mass number = Atomic number/Number of neutrons
(c) Mass number = Atomic number × Number of neutrons
(d) Mass number = Atomic number - Number of neutrons

Q.5 The term "mole" in chemistry was introduced by

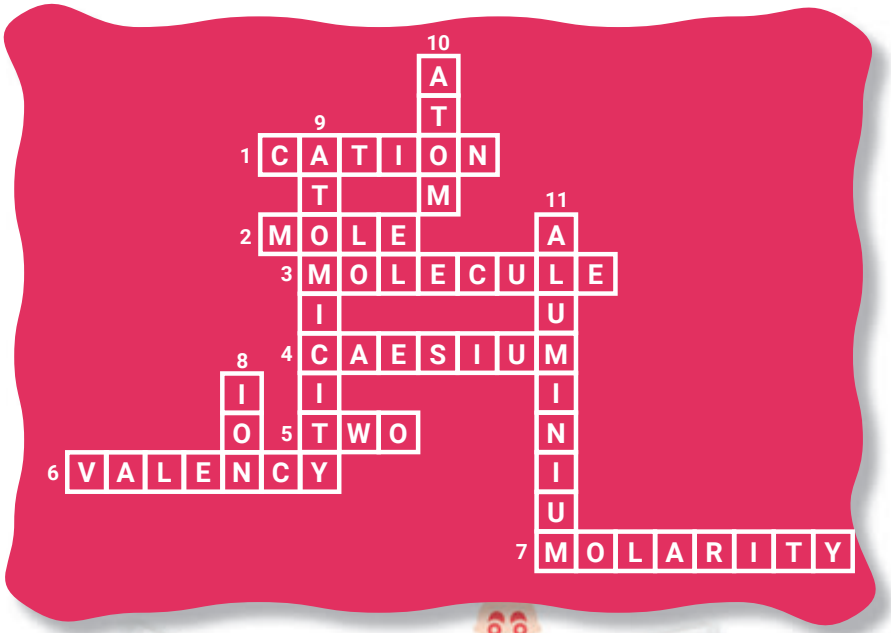
(a) Lavoisier
(b) Wilhelm Ostwald
(c) John Dalton
(d) Neils Bohr

Puzzle

Complete the table.

SYMBOL	VALENCY	ION
		Na^+
N		
		S^{2-}
		H^-
Al		
O		
		Ca^{2+}
Fe	3	
Cl	1	
		Zn^{2+}

Answer (Crossword)



Answer (Jumbled Words)

The underlined word in the following sentences have been jumbled up. Write them in correct form.

1. Molecules that have more than two atoms in them are known as polyatomic molecules.
2. Atomicity of krypton is one.
3. Atoms of different elements join together in a constant proportion.
4. Molality is the number of moles of the solute dissolved per 1000 g or 1 kg of the solvent.
5. A chemical formula represents composition of a molecule.
6. Negatively charged species are called anions.
7. The term 'atom' was coined by Democritus.

Answer (Quiz)

Ans. 1(a) Atoms of different elements are identical in mass.

Ans. 2(c) 1 g H_2

Ans. 3(b) 98 u

Ans. 4(a) Mass number = Atomic number + Number of neutrons

Ans. 5(b) Wilhelm Ostwald

Answer (Puzzle)

SYMBOL	VALENCY	ION
Na	1	Na^+
N	3	N^{3-}
S	2	S^{2-}
H	1	H^-
Al	3	Al^{3+}
O	2	O^{2-}
Ca	2	Ca^{2+}
Fe	3	Fe^{3+}
Cl	1	Cl^-
Zn	2	Zn^{2+}

Why do we fall ill?

Interesting Facts

1. The 1976 film, "The Boy in the Plastic Bubble," depicts a person with a deficient immune system, who must live out his life in a completely sterile environment because his body is unable to fight infections. Though the story is fictional, the immune system disease — Severe Combined Immunodeficiency (SCID), or "bubble boy disease" — is very real, occurring in about 1 in every 100,000 births.

   It can be treated only through bone marrow transplant from a matching sibling donor. However, gene therapy has also recently been proved promising.

2. Despite persistent efforts by the great minds of the world in order to improve the conditions of the health sector in general and treating of diseases in particular there are many diseases which do not have a cure. Let's go through them:

   (a) Various types of allergies like atopic dermatitis, allergic rhinitis (Hay fever) are incurable.

   (b) Arthritis

   (c) Metastatic Cancer

   (d) Depression

   (e) HIV/AIDS: There is no cure for it, but the medication exists to control the symptoms.

   (f) Though there is a vaccine to prevent polio but there is no cure if one has it.

DID YOU KNOW?

- Your immune system can attack itself. It is known as autoimmune disease.
- Autoimmune diseases occur when the immune system destroys its own healthy tissues. In such cases, white blood cells in the body cannot distinguish between pathogens and the body's normal cells, setting off a reaction that destroys healthy tissues.
- Women are more likely to be diagnosed with autoimmune diseases. There are over 80 different types of autoimmune disorders like rheumatoid arthritis, psoriasis, Myasthenia gravis and Crohn's disease.
- Globally, approximately one in three of all adults suffer from multiple chronic conditions.
- Globally, the death from heart diseases is still on the top of the list since last two decades.
- Cancer is the second leading cause of death globally, and is responsible for an estimated 9.6 million deaths in 2018. Globally, about 1 in 6 deaths is due to cancer.
- TB remains the world's most deadly infectious disease; it claims more than a million lives each year globally.
- For example: According to the National Tuberculosis Control Programme Report, as many as 4.4 lakh people died in 2018 of TB, which is 29 per cent of the total 1.5 million deaths due to TB in the world.

Speculate the Sickness

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

1 It spreads by contaminated food to your nervous system, but 2 drops of vaccine can save you when taken on time.

2 It spreads by the *Culex* mosquito and causes your leg to swell like an elephant.

3 Long time ago, a waitress known as Mary Mallon spread this disease as she herself was immune to it.

4 It causes fever, cough, red rashes all over the body and it is caused by a virus.

5 It spreads by *Anopheles* mosquito and is cured by quinine.

6 It causes swelling below the ear and its pathogen lives in our salivary glands.

7 You'd have whooping coughs if you caught this infection.

8 It is a black throat infection caused by *Corynebacterium*.

9 If you don't have citrus fruits in your diet, this is the deficiency you develop.

10 Lack of vitamin B_1 causes this disease.

11 Iodised salt is what you need to prevent this disease.

12 An immune deficiency spreading by sexual contact or blood transfusion.

13 A severe lung infection, spreads by air/droplet, caused by a *Mycobacterium*.

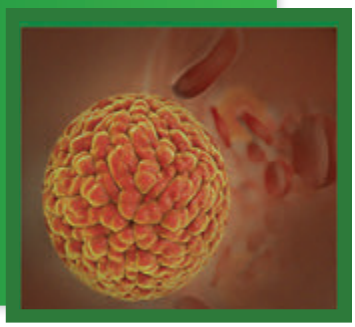
Riddles

1 In the given picture it is also known as the “death tunnel”, what is it?

- Hospital
- Extermination camp
- Uranium mine
- Chinese prison

2 **What is the Zika Virus (ZIKV) named after?**

- Monkey
- Forest
- Beach
- Mosquito



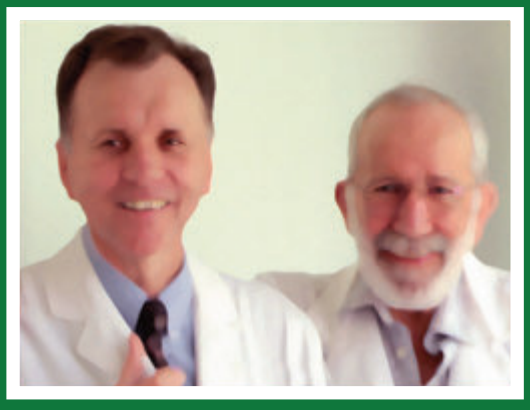
3 **Melasma is also known as?**

- Herpes
- Freckles
- Mask of pregnancy
- Albinism

Beyond the Bravery

Boy who took a needle for the world:

James Phipps was the 8 years old boy on which the first vaccine was tested by Edward Jenner. He was Edward's gardener's son. Edward knew in his heart that the only those milkmaids were immune to smallpox who had first contracted cowpox, so he took fluids from their pustles, made a cut in the boy's hands and inoculated him with the fluid. Even after 20 times of inoculation with the live smallpox virus, he never got the disease even once. Later in life, Pasteur gave him, his wife and kids a cottage to live, which is currently a part of Edward Jenner Museum.



Not possible to test on others? No problem, I'll try myself!!

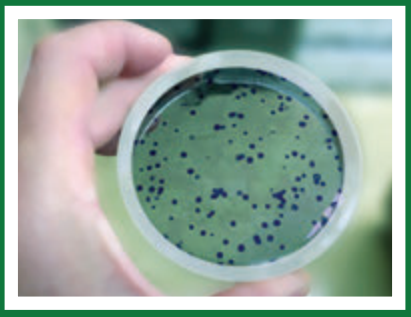
Dr. Barry Marshall tested *Helicobacter pylori* on himself to prove that this bacteria causes the peptic ulcers. His fellow Robin Warren developed the antibiotic which cured this condition. Both the scientists then went on to win Nobel Prize for this discovery.

All heroes don't wear capes, some wear labcoats too

Joseph Meister was a 9 years old boy, bit by a rabid dog, on which rabies vaccine was first tested by Louis Pasteur. Pasteur administered a series of 13 injections, after which Meister never developed rabies. Later in life, Meister served as caretaker of Pasteur's tomb at the Pasteur's Institute in Paris.

The Immortal Lady

Henrietta Lacks was a 31 years old mother of five when she died in 1951, but her name and memory live on in the form of a remarkable lineage of continually dividing cells that have achieved, to all intents and purposes, "immortality". Her cancer cells have continued to live well beyond her death in labs around the world, replicating so prolifically that laid end-to-end they could be wrapped around the earth three times. Her surgeon, Howard Jones, took a tissue biopsy of her cancerous womb without her knowledge or consent, which was passed to George Otto Gey, a physician and cancer researcher in the same Baltimore hospital who was astonished by the ability of the cells to replicate in laboratory culture.



Answer (Speculate the Sickness)

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

Answer (Riddles)

1 **Ans.** **Hospital**

Tuberculosis, also known as “the white plague”, had a high mortality rate before streptomycin was introduced as a treatment in 1943. There may have been as many as 64,000 deaths at Waverly Sanatorium in Kentucky. During the TB years, tunnel was also used to transport the dead, so they wouldn’t be seen by other patients. The tunnel is supposed to be haunted by those who made their last journey through it.

2 **Ans.** **Forest**

Zika virus (ZIKV) is spread by daytime-active *Aedes* mosquitoes. Its name comes from the Zika Forest of Uganda, where the virus was first isolated in 1947. Zika virus is related to the Dengue, Yellow fever, Japanese encephalitis, and West Nile viruses. From 2007 to 2016, the virus spread eastward, across the Pacific Ocean to the Americas, leading to the 2015–16 Zika virus epidemic.

3 **Ans.** **Mask of pregnancy**

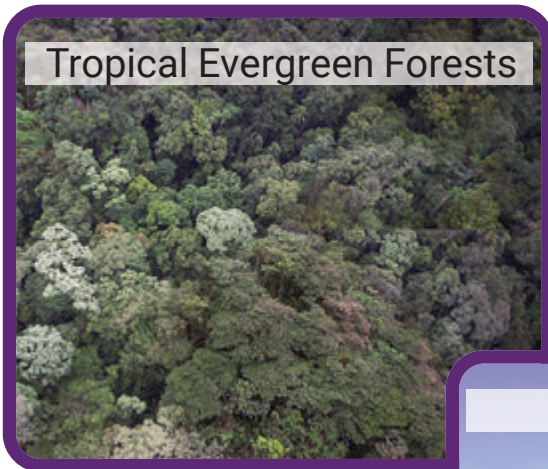
Melasma (a.k.a. chloasma) is a tan or dark skin discoloration. Melasma is thought to be caused by sun exposure, genetic predisposition, hormone changes and skin irritation. Although it can affect anyone, melasma is particularly common in women, especially pregnant women and those who are taking oral or patch contraceptives or hormone replacement therapy (HRT) medication.

Natural Vegetation

TYPES OF VEGETATION

Major types of vegetation in our country

Tropical Evergreen Forests



Tropical Deciduous Forests

Mangrove Forests

Tropical Thorn Forests and Scrubs

Montane Forests

Vocabulary

It is one of the most important parts of English. Let's learn how the following words are used as different "Parts of Speech".

1 Air

As ***Noun*** ⟶ Birds fly in the air.

As ***Verb*** ⟶ Raina opened the windows to air the room.

2 Bark

As ***Noun*** ⟶ The bark of Neem tree is antiseptic.

As ***Verb*** ⟶ Dogs bark at strangers.

3 Bridge

As ***Noun*** ⟶ The army crossed the bridge.

As ***Verb*** ⟶ Let us bridge the generation gap here.

4 Button

As ***Noun*** ⟶ My blazer has a costly button.

As ***Verb*** ⟶ He never buttons up his shirt.

5 Fair

As ***Noun*** ⟶ Sonepur fair is one of the biggest fairs in Asia.

As ***Adjective*** ⟶ Nitin is fair in most of his dealings.

As ***Adjective*** ⟶ The Americans have fair complexion.

As ***Adjective*** ⟶ Make a fair copy of this letter.

Statement Analysis-I

Read the following Statement and Assumptions.
Give answer (a) if only assumption 1 is implicit.
Give answer (b) if only assumption 2 is implicit.
Give answer (c)if either assumptions 1 or 2 is implicit.
Give answer (d) if neither assumption 1 nor 2 are implicit.
Give answer (e) if both assumptions 1 and 2 are implicit.

1. **Statement :** Vitamin E tablets improve circulation, keep your complexion in glowing condition.

Assumptions

(1) People like a glowing complexion.
(2) Complexion becomes dull in the absence of circulation.

2. **Statement :** "The function will start at 6 pm." You are requested to take your seats before 6 pm.

Assumptions

(1) Function will start as scheduled.
(2) If an invitee is not in his seat before 6 pm, the function will not start.

3. **Statement :** The state government has decided to appoint four thousand primary school teachers during next financial year.

Assumptions

(1) There are enough schools in the state to accommodate four thousand primary school teachers during the next financial year.
(2) The eligible candidates may not be interested to apply as the government may not finally appoint such a large number of primary school teachers.

Statement Analysis-II

1. **Statement :** Youngsters are often found staring at obscene posters.

Courses of Action

(I) Children should be punished and penalized if they are found doing so.
(II) Any display of such materials should be banned.

(1) Only I follows
(2) Only II follows
(3) Either I or II follows
(4) Neither I nor II follows
(5) Both I and II follow

2. **Statement :** Exporters in the capital are alleging that commercial banks are violating the Reserve Bank of India directive to operate a post shipment export credit denominated in foreign currency at international rates from January this year.

Courses of Action

(I) The officers concerned in the commercial banks are to be suspended.
(II) The RBI should be asked to stop giving such directives to commercial banks.

(1) Only I follows
(2) Only II follows
(3) Either I or II follows
(4) Neither I nor II follows
(5) Both I and II follow

Missing Numbers

Directions (1 and 2)

In the given figure, each of the nine boxes must be filled with an integer from 1 to 9, so that each row and column are equal in sum which is unique. No repetition is allowed.

8	p	y
x	n	m
4	9	z

1. The value of x + y is

(a) 7 (b) 10

(c) 9 (d) 11

2. The value of m + y − x is

(a) 13 (b) 10

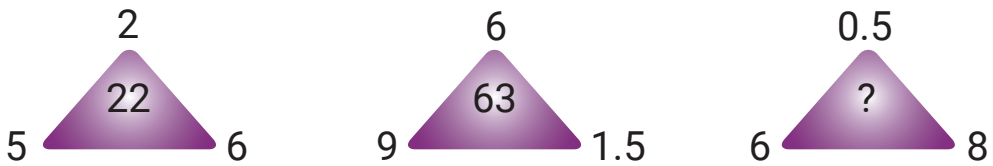
(c) 15 (d) 16

3. In the given figure below, find the value of ?

(a) 9 (b) 11

(c) 8 (d) 13

4. In the given figure below, find the value of ?



(a) 8 (b) 9

(c) 10 (d) 7

Answer (Statement Analysis-I)

1. **Ans :** (e)

Explanation : Both assumptions are implicit. Generally, only those good features of a product are highlighted which people crave for. So, 1 is implicit. If circulation is improved, complexion also improves.

2. **Ans :** (a)

Explanation : It is mentioned in the invitation that you are requested to take your seats before 6 pm. It means that function will start as scheduled. Hence, assumption 1 is implicit. It is not given that the function will not start if invitees do not come on-time.

3. **Ans :** (a)

Explanation : As per the requirement of teachers in primary school only, the government may have taken such decision. So, 1 is implicit. Assumption 2 is absurd as it is against the government's decision.

Answer (Statement Analysis-II)

1. **Ans :** (2) only II follows.

2. **Ans :** (4) Neither I nor II follows

Explanation : The statement mentions that the commercial banks violate a directive issued by the RBI. The remedy is only to make the banks implement the Act. So, none of the course of action follows.

Missing Numbers

1. **Ans :** (c) 9

2. **Ans :** (b) 10

Remaining numbers are 1, 3, 5, 6, 7 clearly 8 + x + y = 15 = 4 + 9 + 2
so, x = 3, now by further analysis
y = 6, m = 7

3. **Ans :** (c) 8

Just add 3 to all the number and you will get that number after two spaces.

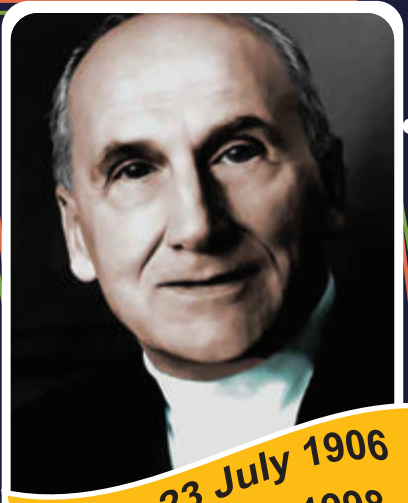
4. **Ans :** (d) 7

$5 \times 2 + 6 \times 2 = 22$
$9 \times 6 + 1.5 \times 6 = 63$
$6 \times 0.5 + 8 \times 0.5 = 7$

NOBEL PRIZE FOR CHEMISTRY

Happy Birthday

Vladimir Prelog



Born - 23 July 1906
Died - 07 Jan 1998

Yugoslavian-Swiss chemist who shared the 1975 Nobel Prize for chemistry with john W. Comforth for his work on the stereochemisty of organic molecules and reactions. Stereochemistry is the study of the three-dimensional arrangements of atoms within molecules. He authored systematic naming rules for molecules and their mirror-image version, that is, which configuration will be referred to as “dextro” and which will be the “levo” (right or left). Also, by X-ray diffraction, he elucidated the structure of several antibiotics.

NEET 2025 Wasn't Easy. Our Results Say Otherwise.

5 AAKASHIANS IN TOP 10 AIR NEET(UG) 2025

OUR NATIONAL TOPPERS IN NEET (UG) 2025

& many more...

Our Problem *Solvers* shine bright in **JEE (Advanced) 2025**

Our Top 100 AIR

Aakashians Create History in International Olympiads

(Classroom Program Students)

IBO 2023

Gold Medalists

34th International Biology Olympiad

Dhruv Advani | **Rohit Panda**

Chirag Falor

IOAA 2019 Gold Medalist

International Olympiad on Astronomy & Astrophysics

Dhiren Bhardwaj

IBO 2021 Silver Medalist

32nd International Biology Olympiad

Anshul

IBO 2021 Silver Medalist

32nd International Biology Olympiad

Amritansh Nigam

IBO 2022 Silver Medalist

33rd International Biology Olympiad

Prachi Jindal

IBO 2022 Silver Medalist

33rd International Biology Olympiad

Tanishka Kabra

IChO 2022 Silver Medalist

54th International Chemistry Olympiad

420 Classroom Students Qualified in NSEs* 2024-25

1484 Students Scored Above MAS

(Group A & B)	(Group A & B)	(Group A & B)	(Group A & B)	
49 NSEA*	229 NSEB*	70 NSEC*	38 NSEP*	34 NSEJS*

Aakashians Qualified for INO-2025

Krishna Agrawal
NSEA | NSEP | NSEC

Mohit Shekher Shukla
NSEA | NSEP | NSEC

Utkarsh Awadhiya
NSEB | NSEP | NSEC

Rupayan Pal
NSEC | NSEB | NSEP

Devansh Garg
NSEJS

Aaron Thakkar
NSEJS

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 RMO 2024

899
Classroom Students
Qualified in IOQM 2024


Joish Achyuta
Class - VIII


Dhanush Damu
Class - IX


Arnav Singh
Class - X


Pranit Goel
Class - XI


Aayush Agarwal
Class - XII

and many more...

Aakashians Qualified for INMO 2025

161
Classroom Students
Qualified in RMO 2024-25


Kotha D Reddy
Reg. No. 00006657265


Abhipraya Verma
Reg. No. 00010407513


Aditya Singh
Reg. No. 00012631688


Rujul Garg
Reg. No. 00005153903


Mohit Shekher Shukla
Reg. No. 00006093814

and many more...

*

Aakashians Qualified for OCSC/IMOTC-2025

25
Classroom Students
Qualified in INOs 2025


Pranit Goel
Qualified INMO


Harshit Singh
Qualified INJSO


Subhrojit Paul
Qualified INBO


Mohit Shekher Shukla
Qualified INChO


Rujul Garg
Qualified INPhO


Aditya Singh
Qualified INAO Jr

and many more...

Aakashians Qualified for Merit Certificate

1019
Classroom Students
Qualified in IMO (Level-I) 2023-24

Intl. Rank 1

Prisha Miglani
Class - IX

Intl. Rank 2

Sushant Agarwal
Class - X

Intl. Rank 4

Ekaashar Gupta
Class - IX

Intl. Rank 7

Harshit Singh
Class - VIII

438
Classroom Students
Qualified in IMO (Level-II) 2024

and many more...

Aakashians Qualified for Merit Certificate

4902
Classroom Students
Qualified in NSO (Level-I) 2024-25

Intl. Rank 2

Meghav Ladani
Class - X

Intl. Rank 2

Anubhab Manna
Class - VIII

Intl. Rank 3

Arnav Gupta
Class - IX

Intl. Rank 7

Parshti Bajpai
Class - IX

Intl. Rank 10

Shreya
Class - VIII

and many more...

* **RMO** -Regional Mathematical Olympiad | **INMO**-Indian National Mathematical Olympiad | **IOQM -** Indian Olympiad Qualifier in Mathematics | **NSO** - National Science Olympiad
IMO - International Mathematics Olympiad | **INOs** - Indian National Olympiads | **OCSCs** - Orientation cum Selection Camps | **IMOTC** - International Mathematical Olympiad Training Camp