



SSC CGL 2013 Tier 1 19 May Morning

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General Awareness

Instructions

For the following questions answer them individually

Question 1

Which of the following high dignitaries, who are not members of Parliament, has the right to address it?

- A Chief Justice of India
- B Attorney General of India
- C Solicitor General of India
- D Chief Election Commissioner of India

Answer: B

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Question 2

The Declaration of American Independence was based on the theory of

- A Civil Rights
- B Moral Rights
- C Legal Rights
- D Natural Rights

Answer: D

Question 3

For which tax, was constitutional status given much later after its introduction in a small way in 1994 - 95?

- A Customs Duty
- B Corporation Tax
- C Taxes on Services
- D Income Tax

Answer: C

Question 4

The first Sultan who requested and obtained letters of investiture from the Caliph (Khalifa) was

- A Iltutmish
- B Balban
- C Firuz Tughluq
- D Alauddin Khilji

Answer: A

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Question 5

The Buddhist monk who spread Buddhism in Tibet was

- A Nagarjuna
- B Ananda
- C Asanga
- D Padmasambhava

Answer: D

Question 6

In 1937, an educational conference endorsing Gandhi's proposals for 'basic education' through the vernacular medium was held at

- A Surat
- B Bombay
- C Ahmedabad
- D Wardha

Answer: D

Question 7

"What is the Third Estate?" pamphlet associated with the French Revolution, was written by :

- A MarquisLafayette
- B Edmund Burke
- C Joseph Foulon
- D Abbe Sieyes

Answer: D

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Question 8

Gandhi's Salt Satyagraha was a part of—

- A Champaran Satyagraha
- B Quit India Movement
- C Non Cooperation Movement
- D Civil Disobedience Movement

Answer: D

Question 9

Stagflation refers to a situation which is characterised by

- A stagnant employment and deflation
- B deflation and rising unemployment
- C inflation and rising employment.
- D inflation and rising unemployment

Answer: D

Question 10

The demand for necessities is

- A elastic
- B perfectly inelastic
- C inelastic
- D perfectly elastic

Answer: B

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Question 11

The 'balance of payments of a country is in equilibrium when the

- A demand as well as supply of the domestic currency are the highest
- B demand for the domestic currency is equal to its supply
- C demand for the domestic currency is the highest
- D demand for the domestic currency is the lowest

Answer: B

Question 12

Value added means value of

- A output at factor cost
- B output at market prices
- C goods and services less depreciation
- D goods and services less cost of intermediate goods and services

Answer: D

Question 13

The difference between GNP and NNP equals

- A corporate profits
- B personal taxes
- C transfer payments
- D depreciation

Answer: D

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Question 14

Who decides a 'bill' is a money bill ?

- A Prime Minister
- B Speaker of Lok Sabha
- C Chairman of Rajya Sabha
- D President

Answer: B

Question 15

Which of the following countries is regarded as the home of 'Fabian Socialism'?

- A Russia
- B England
- C France
- D Italy

Answer: B

Question 16

In plantwater relationships, symbol ' Ψ ' is used to represent

- A Osmotic pressure
- B Water potential
- C Solute potential
- D Osmosis

Answer: B

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Question 17

A molecule in plants comparable to haemoglobin in animals is

- A Cytochrome
- B Cellulose
- C Chlorophyll
- D Carotene

Answer: C

Question 18

An Antigen is

- A the result of Antibody
- B the opposite of Antibody
- C the stimulus for Antibody formation
- D the residue of an Antibody

Answer: C

Question 19

Blood does not coagulate inside the body due to the presence of

- A Plasma
- B Haemoglobin
- C Heparin
- D Fibrin

Answer: C

General Science Notes for SSC CGL

Question 20

The atmospheric layer farthest from the Earth's surface is known as

- A Stratosphere
- B Exosphere
- C Ionosphere
- D Mesosphere

Answer: B

Question 21

The temperate grasslands of South America are called

- A Prairies
- B Pampas

C Downs

D Steppes

Answer: B

Question 22

Contours are the lines which are drawn joining places having

A equal height from mean sea level

B equal rainfall

C equal air pressure

D equal temperature

Answer: A

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Question 23

Soil formed by leaching and oxidation is

A Black soil

B Laterite soil

C Red soil

D Montane soil

Answer: B

Question 24

Which strait separates Australia and Tasmania?

A Bass

B BabelMandeb

C Palk

D Berring

Answer: A

Question 25

Photon is the fundamental unit/quantum of

A gravitation

B electricity

C magnetism

D light

Answer: D

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Question 26

A liquid disturbed by stirring comes to rest due to

- A density
- B surface tension
- C viscosity
- D centripetal force

Answer: C

Question 27

The nuclear particle having no mass and no charge, but only spin is

- A proton
- B neutrino
- C meson
- D electron

Answer: B

Question 28

The technology that is used to establish wireless networking is

- A TCP/IP
- B J2ME
- C MATLAB
- D Bluetooth

Answer: D

Question 29

What is USB ?

- A Ultimate Service Bit
- B Universal SentBit
- C Universal Serial Bus
- D Urgent Sent Bit

Answer: C

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Question 30

In a period from Li to F, ionisation potential

- A cannot be predicted
- B increases
- C decreases
- D remains same

Answer: A

Question 31

Which of the following metals can deposit copper from copper sulphate solution ?

- A Platinum
- B Mercury
- C Iron
- D Gold

Answer: C

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Question 32

Leech is an ectoparasite on cattle, which is

- A Carnivorous
- B Omnivorous
- C Sanguivorous
- D Herbivorous

Answer: D

Question 33

How many chambers does a mammalian heart have ?

- A 4
- B 1
- C 2
- D 3

Answer: A

Question 34

When Arsenic atoms are added to Germanium lattice, it becomes a/an

- A Insulator
- B Superconductor
- C Intrinsic semiconductor
- D Extrinsic semiconductor

Answer: D

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Question 35

Who won the "Miss World" title for 2012?

- A Alexandria Mills
- B Vanya Mishra
- C Wenxia Yu
- D Ivian Sarcos

Answer: C

Question 36

Who was the first Hindi writer to receive Jnanpith Award?

- A Mahadevi Verma
- B Sumitranandan Pant
- C Dr. Ramdhari Singh Dinkar
- D S.H. Vatsyayan

Answer: B

Question 37

Who is the author of the book "Cricketing Life" ?

- A Christopher Martin Jenkins
- B Sunil Gavaskar
- C Kapil Dev
- D Tony Greig

Answer: A

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Question 38

Which country has three capitals viz. Administrative, Legislative and Judicial?

- A Chile
- B Malaysia
- C Canada
- D South Africa

Answer: D

Question 39

How many countries in Africa are members of the Organisation of Petroleum Exporting Countries (OPEC)?

- A Four
- B One
- C Two
- D Three

Answer: A

Question 40

Who is the Chairman of the 14th Finance Commission ?

- A D. Subba Rao
- B Montek Singh Ahluwalia
- C M. Govinda, Rao
- D Dr. YV Reddy

Answer: D

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Question 41

The largest coral reef in the world is found near the coast of

- A Brazil
- B Australia
- C Sri Lanka
- D Cuba

Answer: B

Question 42

Which one of the following Indian World Heritage Sites is not in Madhya Pradesh ?

- A Khajuraho Temples
- B Sun Temple Konark

- C Sanchi Stupa
- D Rock Shelters of Bhimbetka

Answer: B

Question 43

Which among the following is used to dilute oxygen in the gas cylinders used by divers ?

- A Krypton
- B Argon
- C Helium
- D Neon

Answer: C

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Question 44

Which one of the following does not form oxyacid ?

- A Sulphur
- B Chlorine
- C Nitrogen
- D Fluorine

Answer: D

Question 45

The release of which of the following into ponds and wells helps in controlling mosquitoes?

- A Snail
- B Crab
- C Dogfish
- D Gambusia fish

Answer: D

Question 46

The ambient air is stable when the ambient lapse rate is

- A Neutrally stable
- B Hyperadiabatic
- C Subadiabatic
- D Superadiabatic

Answer: C

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Question 47

Exposure to mixtures of chemicals are greater than expected on the basis of effects of exposure to each chemical individually. This is known as

- A Additives
- B Antagonism
- C Synergism
- D Independent

Answer: C

Question 48

The filter over which sewage is sprinkled is called as

- A Trickling filter
- B Percolating filter
- C Contact bed
- D Intermittent sand filter

Answer: A

Question 49

Who was the captain of the West Indies Cricket team, which won the T20 World Cup 2012?

- A Ravi Rampaul
- B Chris Gayle
- C Marlon Samuels
- D D. Sammy

Answer: D

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Question 50

Which football player has won the FIFA World Player Award (FIFA Ballon d'Or) for four years in a row?

- A Andres Iniesta
- B Cristiano Ronaldo
- C Lionel Messi
- D Michel Platini

Answer: C

Explanation:

ENGLISH COMPREHENSION

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English

Instructions

In the following questions, some parts of the sentences have errors and some are correct. Find out which part of a sentence has an error. The number of that part is the answer. If a sentence is free from error, your answer is d: i.e. No error.

Question 51

Being a holiday (a)we went out (b)for a picnic. (c) No error. (d)

A Being a holiday

B we went out

C for a picnic

D No error

Answer: A

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Question 52

If we have no definite aim before us (a)we would only wonder about in aimless pursuits (b)and achieve nothing. (c)No error. (d)

A If we have no definite aim before us

B we would only wonder about in aimless pursuits

C and achieve nothing

D No error

Answer: B

Question 53

He is anxious not only (a) to acquire knowledge (b)but also eager to display it. (c)No error. (d)

A He is anxious not only

B to acquire knowledge

C but also eager to display it.

D No error

Answer: A

Question 54

I went to (a)see the Taj Mahal (b)in a moonlit night. (c) No error. (d)

- A I went to
- B see the Taj Mahal
- C in a moonlit night
- D No error

Answer: D

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Question 55

Having found a piece of cheese, (a)two cats went to a dog (b) to divide it among them. (c) No error. (d)

- A Having found a piece of cheese
- B two cats went to a dog
- C to divide it among
- D No error

Answer: C

Instructions

In the following questions, sentences are given with blanks to be filled with an appropriate word(s). Four alternatives are suggested for each question. Choose the correct alternative out of the four.

Question 56

There is aamount of fatty acids and carbohydrates in some of the imported chocolates.

- A neglecting
- B negligent
- C negligible
- D neglected

Answer: C

Question 57

I'm not as successfulshe is.

- A then
- B as
- C like
- D than

Answer: B

Question 58

Many Tamil-speaking Sri Lankans..... from the island to escape the military and its atrocities.

- A flown
- B flee
- C fled
- D flew

Answer: C

Question 59

.....the new Safari Storme, Mahindra has more leverage in increasing the sales.

- A With
- B At
- C On
- D In

Answer: A

Question 60

The passenger car sales showed a decline7% to 5.6%.

- A from
- B for
- C of
- D to

Answer: A

General Science Notes for SSC CGL

Instructions

In the following questions, out of the four alternatives, choose the one which best expresses the meaning of the given word.

Question 61

Hallucination

- A delusion
- B habitat
- C dress
- D deception

Answer: A

Question 62

Salacious

- A angry
- B unhappy
- C satisfied
- D lustful

Answer: D

Question 63

Derive

- A contain
- B attain
- C sustain
- D obtain

Answer: C

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Instructions

In the following questions, choose the word opposite in meaning to the given word.

Question 64

Retrench

- A revamp
- B belie
- C deviate
- D recruit

Answer: D

Question 65

Aggravate

- A depreciate
- B extinguish
- C subsidise
- D alleviate

Answer: D

Question 66

Indelible

- A decorous
- B surprising
- C concerted
- D temporary

Answer: D

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Instructions

In the following questions, four alternatives are given, for the Idiom/Phrase printed in bold in the sentence. Choose the alternative which best expresses the meaning of the Idiom/ Phrase.

Question 67

My ten year-old son is an incredible live-wire.

- A lazy
- B dangerous
- C naughty
- D energetic

Answer: D

Question 68

He had to cool his heels before he could get an appointment with the doctor.

- A to be kept waiting
- B to make publicly known
- C to exercise influence
- D to lose one's temper

Answer: A

Question 69

The captains of the rival teams should, try to bury the hatchet.

- A put up a stiff competition
- B make peace
- C win the game
- D forget the past

Answer: B

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Question 70

He stopped at the bar to wet his whistle.

- A have a nap
- B be happy
- C have a problem
- D have a drink

Answer: D

Question 71

Over the years, we remained loyal through thick and thin.

- A to our principles
- B to employers and subordinates
- C in married life
- D in spite of all the difficulties

Answer: D

Instructions

In the following questions, a sentence/ part of the sentence is printed in bold. Below are given alternatives to the bold sentence/part of the sentence at a, b: and c: which may improve the sentence. Choose, the correct alternative. In case no improvement is needed, your answer is d:

Question 72

New hires in this laboratory should anticipate excellent research opportunities and getting valuable clinical, experience.

- A as well as
- B and also getting
- C and obtaining
- D No improvement

Answer: A

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Question 73

It is more better to take this route than the other one.

- A good
- B better
- C more good

D No improvement

Answer: B

Question 74

She is absent; she must be sick again.

A She is absent; she has been sick again

B She is absent: she is sick again

C She is absent; she must have been sick again

D No improvement

Answer: D

Question 75

Jackie has already gone to the airport she will meet us at the check-in counter.

A gone to the airport and Jackie will meet us

B gone to the airport and she will meet us

C gone to the airport she ought to meet us

D No improvement

Answer: B

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Question 76

The place at which the two roads meet, you will find a small log cabin.

A Where the two roads meet

B At the place where the two roads meet

C The place where the two roads meet

D No improvement

Answer: A

Question 77

The vivid photos of majestic animals and colourful birds from the wild-life park is a graphic depiction of what is beautiful in the continent of Africa.

A is a graphic depiction of what was beautiful in

B are graphic depictions of what is beautiful in

C is a beautiful and graphic depiction of

D No improvement

Answer: B

Question 78

Although I was initially apprehensive, I found the eating of snails to be a rather pleasant experience.

- A I ate the pleasant snail's experience
- B I found the snails experienced
- C I found it to be a more pleasant experience
- D No improvement

Answer: C

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Question 79

The man ate an apple, an orange, and washed his hands.

- A an apple and an orange, and washed his hands
- B an apple, an orange, washed his hands
- C an apple, an orange and his washed hands
- D No improvement

Answer: A

Question 80

After we ate a spectacular nine-course dinner, three television shows were watched by us.

- A we were watching three television shows
- B we engaged in the watching of three shows
- C we watched three television shows
- D No improvement

Answer: C

Question 81

The Blue Whale, weighing more than 150 tons, the largest known animal on Earth.

- A weighing more than 150 tons, it is
- B weighing more than 150 tons, is the
- C which weighs more than 150 tons, being the
- D No improvement

Answer: B

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Instructions

In the following questions, out of the four alternatives, choose the one which can be substituted for the given words/sentence.

Question 82

More like a woman than a man in manners and habits

- A Unmanly
- B Effeminate
- C Womanish
- D Delicate

Answer: B

Question 83

Handwriting which is difficult or impossible to read

- A Unintelligible
- B Eligible
- C Illegible
- D Illogical

Answer: C

Question 84

To play the part of, and function as, some other person

- A Imitate
- B Pretend
- C Impersonate
- D Act

Answer: C

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Question 85

Not easily pleased by anything

- A Fastidious
- B Maiden
- C Medieval
- D Precarious

Answer: A

Question 86

To die without having made a will

- A Intaglio
- B Inveterate
- C Intestate
- D Insolvent

Answer: C

Question 87

One who enjoys inflicting pain on himself

- A masochist
- B nihilist
- C egoist
- D sadist

Answer: A

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Question 88

Murder of a brother

- A Fratricide
- B Patricide
- C Regicide
- D Homicide

Answer: A

Instructions

In the following questions, four words are given in each question, out of which only one word is correctly spelt. Find the correctly spelt word.

Question 89

- A anihilate
- B Annihilate
- C anihillate
- D Annihillate

Answer: B

Question 90

- A embarrassed
- B embarrassed
- C embarrassed
- D embarrassed

Answer: C

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Instructions

In the following questions, you have a passage with 10

questions Read the passage carefully and choose the best answer to each question out of the four alternatives.

Many people who are looking to get a pet dog get a puppy. There are many reasons why people get puppies. After all, puppies are cute, friendly, and playful. But even though puppies make good pets, there are good reasons why you should consider getting an adult dog instead. When you get a puppy, you have to teach it how to behave. You have to make sure that the puppy is housebroken so that it does not go to the bathroom inside the house. You have to teach the puppy, not to jump up on your guests or chew on your shoes. You have to train the puppy to walk on a leash. This is a lot of work. On the other hand, when you get an adult dog there is a good chance that it will already know how to do all of the previously mentioned things. Many adult dogs have already been housebroken. Many adult dogs will not jump on or chew things that you do not want them to jump on or chew. Many adult dogs will be able to walk on a leash without pulling you to the other side of the street. Puppies also have a lot of energy and want to play all of the time. This can be fun, but you might not want to play as much as your puppy does. Puppies will not always sleep through the night or let you relax as you watch television. On the other hand, most adult dogs will wait on you to play. What is more, they will sleep when you are sleeping and are happy to watch television on the couch right beside you. There is one last reason why you should get an adult dog instead of a puppy. When most people go to the pound to get a dog, they get a puppy. This means that many adult dogs spend a lot of time in the pound and some never find good homes. So if you are looking to get a dog for a pet, you should think about getting an adult dog. They are good pets who need good homes.

Question 91

Which is the best example of a dog that is housebroken ?

- A Muffin chews on people's shoes
- B Spot goes outside to use the bathroom
- C Rex always breaks things inside the house
- D Rover never jumps on guests

Answer: B

Question 92

The author apparently thinks that puppies are

- A not as playful as adult dogs
- B hardworking
- C friendly and playful
- D not as cute as adult dogs

Answer: C

Question 93

Which is the best synonym for 'behave' as applicable to this passage?

- A act
- B listen
- C understand
- D train

Answer: A

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Question 94

The passage speaks of

- A the work involved in training puppies
- B the immature acts of puppies
- C how puppies do not make good pets
- D how puppies can be very destructive

Answer: B

Question 95

As used in paragraph 3, which is the best synonym for relax ?

- A rest
- B work
- C leave
- D play

Answer: A

Question 96

The author begins paragraphs 2 and 4 with the phrase, "On the other hand". This phrase is used to

- A support the following paragraph
- B highlight an example
- C contradict previous information
- D contradict a later statement

Answer: C

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Question 97

In the final paragraph, the author says "many adult dogs spend a lot of time in the pound, and some never find good homes," Based on the passage, why is this most likely?

- A People do not want to get a dog that does not have much time left to live
- B People see adult dogs as unhappy and dangerous, while they see puppies as cute and friendly
- C People understand that most adult dogs still need a lot of training before they understand how to behave properly
- D People think that puppies are cute and playful and do not always think about how much work it will take to train them

Answer: D

Question 98

Based on the information in the passage, it can be understood that someone who owns a puppy must be very

- A responsible
- B strict
- C serious
- D optimistic

Answer: A

Question 99

According to the passage, why is it easier to take care of adult dogs than puppies?

- I. Puppies need to learn how to walk well on a leash.
- II. Adult dogs have less energy than puppies.
- III. It is harder for adult dogs to find a home than it is for puppies.

- A I, II and III
- B I only
- C I and II only
- D II and III only

Answer: A

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Question 100

Based on the information in the passage, which of the following statements is false ?

- A Adult dogs do not need to eat very much.
- B Puppies have a lot of energy
- C Puppies need a lot of attention
- D Adult dogs do not like to play

Answer: A

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Quant

Instructions

For the following questions answer them individually

Question 101

The radius of a circle is a side of a square. The ratio of the areas of the circle and the square is

- A 1 : π
- B π : 1
- C π : 2
- D 2 : π

Answer: B

Explanation:

Let the radius be x . Since it is equal to the side of square

=> Side of square = x

Ratio of area of circle to that of square

$$= \frac{\pi x^2}{x^2}$$
$$= \pi$$

=> Required ratio = π : 1

General Science Notes for SSC CGL

Question 102

How much percent more than the cost price should a shopkeeper mark his goods so that after allowing a discount of 25% on the marked price, he gains 20%?

- A 70%
- B 50%
- C 60%
- D 55%

Answer: C

Explanation:

Let the cost price of article be Rs 100.

Now to gain 20% profit, shopkeeper needs to sale the article at = $(100 + 20) = 120$ Rs

but we will achieve this selling price after 25% discount on Marked Price

So if Marked Price = M

then Selling Price = $0.75 M = 120$

M = Rs 160

Hence Marked Price = Rs 160 and it is 60% more than cost price

Question 103

An article is marked at 5,000. The shopkeeper allows successive discounts of x%, y%, z% on it. The net selling price is

A ₹ $\frac{(100-x)(100+y)(100+z)}{200}$

B ₹ $\frac{(100+x)(100+y)(100-z)}{200}$

C ₹ $\frac{(100-x)(100-y)(100-z)}{200}$

D ₹ $\frac{(100-x)(100+y)(100-z)}{200}$

Answer: C

Explanation:

given that the marked price is Rs 5000

And the shopkeeper gives three successive discounts of x % y% z%

So the price after three given successive discounts = $5000 (1- x/100)(1-y/100)(1-z/100)$

$$= \frac{(100-x)(100-y)(100-z)}{200}$$

Question 104

A shopkeeper offers a discount of 10% on his articles. The marked price of the article is 450. The selling price should be

A 395

B 410

C 405

D 400

Answer: C

Explanation:

Here the marked price = Rs 450

discount = 10%

Hence Selling Price = Marked Price - Discount Amount

$$= 450 - \frac{10}{100} \times 450$$

=Rs 405

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Question 105

The ratio of number of balls in bags x,y is 2 : 3. Five balls are taken from bag y and are dropped in bag x. Number of balls are equal in each bag now. Number of balls in each bag now is

A 45

B 20

C 30

D 25

Answer: D

Explanation:

let the number of balls in bag x is $2z$ and bag y be $3z$

Given that If 5 balls are taken from bag y and put in bag x then both bags will have same balls .So,

$$3z - 5 = 2z + 5$$

$$z = 10$$

$$\text{Final number of balls in bag} = 3 \times 10 - 5 = 25$$

Question 106

Divider 2,600 among A, B,C in the ratio $1/2 : 1/3 : 1/4$ Find the share of each.

A 1200; 600; 800

B 1200; 800; 600

C 600; 800; 1200

D 800; 600; 1200

Answer: B

Explanation:

here the ratio $A:B:C = 1/2 : 1/3 : 1/4 = 6:4:3$

and so assume

$$A = 6y$$

$$B = 4y$$

$$C = 3y$$

$$A+B+C = 2600$$

$$6y+4y+3y = 2600$$

$$y = 200$$

$$\text{So, } A=1200, B= 800, C = 600$$

Question 107

A positive integer when divided by 425 gives a remainder 45. When the same number is divided by 17, the remainder will be

A 11

B 8

C 9

D 10

Answer: A

Explanation:

Let the number be 45.

So, when 45 is divided by 425, the remainder is 45 and quotient is 0.

Now, when 45 is divided by 17, we get

$$\text{quotient} = 2$$

$$\text{remainder} = 11$$

Question 108

$(256)^{0.16} \times (256)^{0.09}$ is

- A 256.25
- B 4
- C 16
- D 64

Answer: B

Explanation:

Using the property, $x^a * x^b = x^{a+b}$

$$\Rightarrow (256)^{0.16} \times (256)^{0.09} = (256)^{0.16+0.09}$$

$$= 256^{0.25} = (4)^{4 * \frac{1}{4}}$$

$$= 4^1 = 4$$

Question 109

A can do a piece of work in 6 days. B is 25% more efficient than A. How long would B alone take to finish this work?

- A $4\frac{4}{5}$ days
- B $3\frac{1}{3}$ days
- C $5\frac{1}{4}$ days
- D $2\frac{2}{3}$ days

Answer: A

Explanation:

It is given that A takes 6 days to finish a work and it is also given that B is 25% more efficient than A, it means that B will take less time to finish the work OR it can be said that :

$$B = 1.25 A$$

Using,

$$\frac{M_1 D_1}{W_1} = \frac{M_2 D_2}{W_2}$$

$D_1 = 6$ and D_2 are the days taken by B to complete the work

Let the amount of work be, $W_1 = W_2 = W$

So,

$$\frac{A \times 6}{W} = \frac{1.25A \times D_2}{W}$$

$$D_2 = 4\frac{4}{5} \text{ days}$$

Question 110

A, B and C can do a piece of work in 20, 30 and 60 days respectively. In how many days can A do the work if he is assisted by B and C on every third day ?

- A 10 days
- B 12 days

C 15 days

D 20 days

Answer: C

Explanation:

lcm of 20,30,60= 60nits

work of A per day = $\frac{60}{20} = 3$

work of B per day = $\frac{60}{30} = 2$

work of C per day = $\frac{60}{60} = 1$

work of A,B,C for 3 day cycle = $(3*3)+2+1= 12$

days needed to complete the work = $\frac{60}{12} * 3 = 15$ days

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Question 111

2 men and 3 boys can do a piece of work in 10 days while 3 men and 2 boys can do the same work in 8 days. In how many days can 2 men and 1 boy do the work ?

A 8 days

B 7 days

C 12.5 days

D 2 days

Answer: C

Explanation:

Let the amount work equivalent to 40 units (LCM of 10 and 8)

It is given that 2 men and 3 boys can do 40 units of work in = 10 days

(2 men + 3 boys)'s 1 day work = 4 units(1)

It is given that 3 men and 2 boys can do 40 units of work in = 8 days

(3 men + 2 boys)'s 1 day work = 5 units(2)

From equation 1 and 2

1 boy' 1 day work = $\frac{2}{5}$ units

1 man's 1 day work = $\frac{7}{5}$ units

(2 men + 1 boy)'s 1 day work = $\frac{16}{5}$ units

So, number of days required by (2 men + 1 boy) to complete 40 units of work = $\frac{40 \times 5}{16} = 12.5$ days

Question 112

The perimeter of a rectangular plot is 48 m and area is 108 m². The dimensions of the plot are

A 36 m and 3 m

B 12 m and 9 m

C 27 m and 4 m

D 18 m and 6 m

Answer: D

Explanation:

Let the length of the plot be l and breadth be b

$$\Rightarrow \text{Perimeter of rectangular plot} = 2(l + b) = 48$$

$$\Rightarrow l + b = 24$$

$$\text{Area of plot} = lb = 108$$

$$\Rightarrow l(24 - l) = 108$$

$$\Rightarrow l^2 - 24l + 108 = 0$$

$$\Rightarrow l^2 - 6l - 18l + 108 = 0$$

$$\Rightarrow l(l - 6) - 18(l - 6) = 0$$

$$\Rightarrow l = 6, 18$$

$$\text{When } l = 6 \Rightarrow b = 18$$

$$\text{and when } l = 18 \Rightarrow b = 6$$

\Rightarrow Dimensions of the plot are 18 m and 6 m.

Question 113

If the total surface area of a hemisphere is 27π square cm, then the radius of the base of the hemisphere is

A $9\sqrt{3}$ cm

B 3 cm

C $3\sqrt{3}$ cm

D 9 cm

Answer: B

Explanation:

Let the radius of the hemisphere be r

$$\Rightarrow \text{Total surface area of hemisphere} = 3\pi r^2 = 27\pi$$

$$\Rightarrow r^2 = 9$$

$$\Rightarrow r = \sqrt{9} = 3 \text{ cm}$$

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Question 114

A fraction becomes $\frac{9}{11}$, if 2 is added to both the numerator and the denominator. If 3 is added to both the numerator and the denominator it becomes $\frac{5}{6}$. What is the fraction ?

A $\frac{7}{9}$

B $\frac{3}{7}$

C $\frac{5}{9}$

D $\frac{7}{10}$

Answer: A

Explanation:

Let the fraction be $\frac{x}{y}$

$$\Rightarrow \frac{x+2}{y+2} = \frac{9}{11}$$

$$\Rightarrow 11x + 22 = 9y + 18$$

$$\Rightarrow 11x - 9y + 4 = 0$$

Also, $\frac{x+3}{y+3} = \frac{5}{6}$

$$\Rightarrow 6x + 18 = 5y + 15$$

$$\Rightarrow 6x - 5y + 3 = 0$$

Solving above equations, we get $x = 7$ and $y = 9$

$$\Rightarrow \text{Required fraction} = \frac{7}{9}$$

Question 115

If $x = 1 - \sqrt{2}$, the value of $(x - \frac{1}{x})^3$ is

A -8

B 8

C $2\sqrt{2}$

D 1

Answer: B

Explanation:

$$x = 1 - \sqrt{2},$$

$$\frac{1}{x} = \frac{1}{1 - \sqrt{2}}$$

$$= \frac{1}{1 - \sqrt{2}} \times \frac{1 + \sqrt{2}}{1 + \sqrt{2}}$$

$$= -1 - \sqrt{2}$$

$$(x - \frac{1}{x})^3 = (1 - \sqrt{2} - (-1 - \sqrt{2}))^3 = (2)^3 = 8.$$

so the answer is option B.

Question 116

If $\frac{a}{b} + \frac{b}{a} - 1 = 0$, then the value of $a^3 + b^3$ is

A 3

B 0

C 1

D -1

Answer: B

Explanation:

$$\frac{a}{b} + \frac{b}{a} - 1 = 0$$

$$\frac{a^2+b^2}{ab} - 1 = 0$$

$$a^2 + b^2 - ab = 0$$

We know $a^3 + b^3 = (a + b)(a^2 + b^2 - ab)$

As $a^2 + b^2 - ab = 0$, therefore $a^3 + b^3 = (a + b)(a^2 + b^2 - ab) = 0$

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Question 117

If $x + \frac{1}{x} = 99$, find the value of $\frac{100x}{2x^2+102x+2}$ is

A $\frac{1}{6}$

B $\frac{1}{2}$

C $\frac{1}{3}$

D $\frac{1}{4}$

Answer: C

Explanation:

$$x + \frac{1}{x} = 99$$

$$x^2 + 1 = 99x$$

multiply with 2 on both sides

$$2x^2 + 2 = 198x$$

add 102x on both sides,

$$2x^2 + 2 + 102x = 198x + 102x$$

$$2x^2 + 2 + 102x = 300x$$

$$2x^2 + 2 + 102x = 3 \times 100x$$

$$\frac{2x^2+102x+2}{100x} = 3$$

$$\frac{100x}{2x^2+102x+2} = \frac{1}{3}$$

so the answer is option C.

Question 118

If $x = 3 + 2\sqrt{2}$, the value of $x^2 + \frac{1}{x^2}$ is

A 36

B 30

C 32

D 34

Answer: D

Explanation:

$$x = 3 + 2\sqrt{2}$$

then,

$$\frac{1}{x} = \frac{1}{3+2\sqrt{2}} = \frac{1}{3+2\sqrt{2}} \times \frac{3-2\sqrt{2}}{3-2\sqrt{2}} = 3 - 2\sqrt{2}$$

$$= 3 + 2\sqrt{2} + 3 - 2\sqrt{2} = 6$$

squaring on both sides

$$\left(x + \frac{1}{x}\right)^2 = 36$$

$$x^2 + \frac{1}{x^2} + 2 = 36$$

$$x^2 + \frac{1}{x^2} = 36 - 2 = 34$$

so the answer is option D.

Question 119

If $(a + b + c) = 0$, then $\left(\frac{a^2}{bc} + \frac{b^2}{ca} + \frac{c^2}{ab}\right)$ is

- A 3
- B -1
- C 0
- D 1

Answer: A

Explanation:

given $(a + b + c) = 0$

if $(a + b + c) = 0$,

$$a^3 + b^3 + c^3 = 3abc$$

$$\frac{a^3 + b^3 + c^3}{abc} = 3$$

$$\frac{a^3}{abc} + \frac{b^3}{abc} + \frac{c^3}{abc} = 3$$

$$\frac{a^2}{bc} + \frac{b^2}{ca} + \frac{c^2}{ab} = 3$$

so the answer is option A.

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Question 120

If x and y are positive real numbers and $xy = 8$, then the minimum value of $2x + y$ is

- A 9
- B 17
- C 10
- D 8

Answer: D

Explanation:

As x & y are positive real numbers, we can use $AM \geq GM$

Let two numbers be $2x$ and y

$$\Rightarrow \frac{2x+y}{2} \geq \sqrt{2xy}$$

$$\Rightarrow 2x + y \geq 2\sqrt{16}$$

$$\Rightarrow 2x + y \geq 8$$

\Rightarrow Minimum value of $(2x + y)$ is 8

Question 121

The graphs of $2x + 1 = 0$ and $3y - 9 = 0$ intersect at the point

A $(-\frac{1}{2}, -3)$

B $(-\frac{1}{2}, 3)$

C $(\frac{1}{2}, -3)$

D None of these

Answer: B

Explanation:

Equations : $2x + 1 = 0$ and $3y - 9 = 0$

Solving above equations, we get :

$$x = -\frac{1}{2} \text{ and } y = 3$$

\Rightarrow The graphs of above equations will intersect at $(-\frac{1}{2}, 3)$

Question 122

In triangle ABC, $\angle BAC = 75^\circ$, $\angle ABC = 45^\circ$. BC is produced to D. If $\angle ACD = x^\circ$, then $\frac{x}{3}$ % of 60° is

A 30°

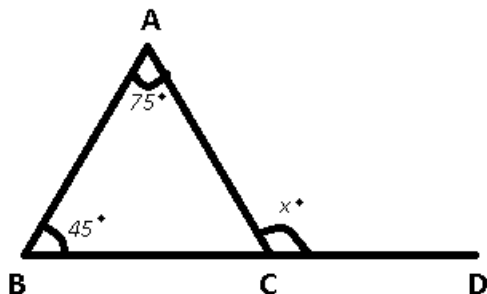
B 48°

C 15°

D 24°

Answer: D

Explanation:



Using exterior angle property, we get :

$$\Rightarrow \angle ACD = \angle ABC + \angle BAC$$

$$\Rightarrow x = 45^\circ + 75^\circ = 120^\circ$$

Now, $\frac{x}{3}$ % of 60°

$$= \frac{120}{3} \% \text{ of } 60^\circ = \frac{40}{100} * 60$$

= 24°

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Question 123

Out of four numbers, the average of the first three is 15 and that of the last three is 16. If the last number is 19, the first is

- A 19
- B 15
- C 16
- D 18

Answer: C

Explanation:

Given that the average of first 3 = 15 and average of last 3 is = 16

Using average = $\frac{\text{sum}}{\text{number of elements}}$

Sum of first 3 numbers = $15 \times 3 = 45$

Sum of last 3 numbers = $16 \times 3 = 48$

last number is given as = 19

so sum of last two numbers = $48 - 19 = 29$

so first number = $45 - 29 = 16$

Question 124

In a family of 5 members, the average age at present is 33 years. The youngest member is 9 years old. The average age of the family just before the birth of the youngest member was

- A 30 years
- B 29 years
- C 25 years
- D 24 years

Answer: A

Explanation:

average age of 5 members = $33 \times 5 = 165$ years

given that youngest member has age = 9 years

so 9 years ago, youngest member was not present and for other 4 people, 9 years will be reduced from each person's age and hence

total age of 4 members apart from the youngest one 9 years ago = $165 - 9 \times 4 = 120$ years

average age when the youngest member was born = $\frac{120}{4}$

= 30 years

Question 125

A dishonest dealer professes to sell his goods at the cost price but uses a false weight of 850 g instead of 1 kg. His gain percent is

- A $17\frac{12}{7}\%$

B $17\frac{11}{17}\%$

C $71\frac{11}{17}\%$

D $11\frac{11}{17}\%$

Answer: B

Explanation:

Let assume that he buys 1000 gram of quantity at 1000 Rs

So, Cost Price of 1 gram = 1 Rs

Now as it is mentioned that he is selling only 850 gram in 1000 Rs

So, selling Price of 1 gram = $\frac{1000}{850} = \text{Rs } 1.1764$

So profit percentage = $\frac{\text{Selling Price} - \text{Cost Price}}{\text{Cost Price}} = \frac{1.1764 - 1}{1} \times 100$

= $17.64\% = 17\frac{11}{17}\%$

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Question 126

In a college, 40% of the students were allotted group A, 75% of the remaining were given group B and the remaining 12 students were given group C. Then the number of students who applied for the groups is

A 100

B 60

C 80

D 92

Answer: C

Explanation:

let the total number of students be y

As it is given that 40% joined group A and so the remaining are = $y - 0.4y = 0.6y$

Now it is given that 75% of the remaining joined group B so remaining students are = $0.75 \times 0.6y = 0.45y$

Remaining students are = $0.6y - 0.45y = 0.15y$

Given that $0.15y = 12$

$y = 80$

Students applied for the group = 80

Question 127

A train 150 metres long crosses a milestone in 15 seconds and crosses another train of the same length travelling in the opposite direction in 12 seconds. The speed of the second train in km/hr is

A 52

B 56

C 54

D 36

Answer: C

Explanation:

It is given that A train 150 meters long crosses a milestone in 15 seconds

Length of train(L) = 150 m

Time taken to cross milestone(T) = 15 sec

Let speed of this train be = S m/sec

So using ,

Distance = Speed x Time

$$150 = S \times 15$$

$$S = 10 \text{ m/sec}$$

Now it is mentioned that this train crosses another train of the same length travelling in the opposite direction in 12 seconds

let the speed of another train be Y m/sec

As both trains are moving in opposite direction so relative speed = (Y + 10) m/sec

So ,

$$(150+150) = (Y + 10) \times 12$$

$$25 = Y + 10$$

$$Y = 15 \text{ m/sec OR } (15 \times \frac{18}{5}) = 54 \text{ km/hr}$$

Question 128

A person can row a distance of one km upstream in ten minutes and downstream in four minutes. What is the speed of the stream ?

A 4.5 km/h

B 4 km/h

C 9 km/h

D 5.6 km/h

Answer: A

Explanation:

Distance(D) is given as 1 km

Let the speed of boat and river be B km/hr and R km/hr

in case of upstream , the speed of boat = (B-R) km/hr

in case of downstream, the speed of boat = (B+R) km/hr

in upstream it takes 10 minutes to move 1 km and takes 4 minutes in downstream for the same distance

So , using distance = speed x time

$$\frac{1}{B-R} = \frac{10}{60}$$

$$\frac{1}{B+R} = \frac{4}{60}$$

$$B-R = 6 \dots\dots(1)$$

$$B+R = 15 \dots\dots(2)$$

Solving equations 1 and 2

$$B = 10.5 \text{ km/hr and } R = 4.5 \text{ Km/hr}$$

Question 129

A certain sum of money will be doubled in 15 years at what rate of simple interest percent per annum?

- A 25
- B $5\frac{1}{2}$
- C 6
- D $6\frac{2}{3}$

Answer: D

Explanation:

Let assume that money is getting doubled in 15 years with R % per annum Simple Interest.

It means if principal amount is Rs P then same amount of interest is getting accumulated in 15 years at R% SI

So using, $SI = \frac{PRT}{100}$

$$P = \frac{P \times R \times 15}{100}$$

$$R = \frac{20}{3} = 6.66\%$$

Question 130

In an isosceles triangle, if the unequal angle is twice the sum of the equal angles, then each equal angle is

- A 120°
- B 60°
- C 30°
- D 90°

Answer: C

Explanation:

Let the angles of isosceles triangle be α, α, β

$$\text{Now, } \beta = 2(\alpha + \alpha)$$

$$\Rightarrow \beta = 4\alpha$$

Also, sum of angles of a triangle is 180°

$$\Rightarrow 2\alpha + \beta = 180^\circ$$

$$\Rightarrow 2\alpha + 4\alpha = 180^\circ$$

$$\Rightarrow \alpha = \frac{180}{6} = 30^\circ$$

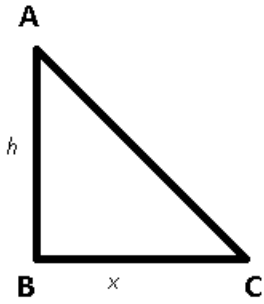
Question 131

At an instant, the length of the shadow of a pole is $\sqrt{3}$ times the height of the pole. The angle of elevation of the Sun at that moment is

- A 75°
- B 30°
- C 45°
- D 60°

Answer: B

Explanation:



Let height of pole = $AB = h$

Length of shadow = $BC = x$

Angle of elevation of sun = $\angle ACB = \theta = ?$

Acc to ques : $x = \sqrt{3}h$

In $\triangle ABC$

$$\Rightarrow \tan \theta = \frac{AB}{BC}$$

$$\Rightarrow \tan \theta = \frac{h}{x}$$

$$\Rightarrow \tan \theta = \frac{h}{\sqrt{3}h} = \frac{1}{\sqrt{3}}$$

$$\Rightarrow \theta = 30^\circ$$

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Question 132

If θ is positive acute angle Find whether the equation $3(\sec^2 \theta - \tan^2 \theta) = 5$ is true or not ?

- A True
- B False
- C can not be determined
- D None of these

Answer: B

Explanation:

Given that : $3(\sec^2 \theta - \tan^2 \theta) = 5$

we know that $1 + \tan^2 \theta = \sec^2 \theta$

using the above identity ,

$$\text{L.H.S} :: 3(\sec^2 \theta - \tan^2 \theta) = 3(1 + \tan^2 \theta - \tan^2 \theta) = 3$$

$$\text{R.H.S} :: 5$$

As , L.H.S \neq R.H.S the given equation is false

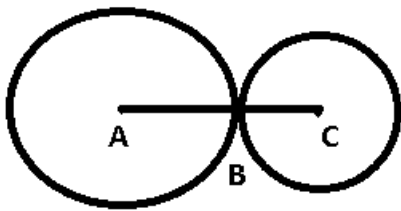
Question 133

Two circles touch each other externally. The distance between their centres is 7 cm. If the radius of one circle is 4 cm, then the radius of the other circle is

- A 3.5 cm
- B 3 cm
- C 4 cm
- D 2 cm

Answer: B

Explanation:



Given : $AC = 7$ cm and $AB = 4$ cm

To find : $BC = ?$

Solution : Clearly, $BC = AC - AB$

$= 7 - 4 = 3$ cm

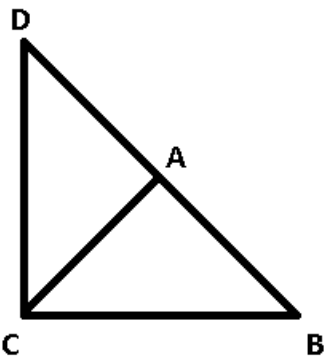
Question 134

In a $\triangle ABC$, $AB = AC$ and BA is produced to D such that $AC = AD$. Then the $\angle BCD$ is

- A 100°
- B 60°
- C 80°
- D 90°

Answer: D

Explanation:



Given : $AB = AC = AD$

To find : $\angle BCD = ?$

Solution : Since, $AB = AC$, $\Rightarrow \angle ABC = \angle ACB$

and $\angle ACD = \angle ADC$

and $\angle BCD = \angle ACB + \angle ACD$

In $\triangle BCD$

$$\Rightarrow \angle CDB + \angle DBC + \angle BCD = 180^\circ$$

$$\Rightarrow \angle CDB + \angle DBC + (\angle ACD + \angle ACB) = 180^\circ$$

$$\Rightarrow 2\angle ACB + 2\angle ACD = 180^\circ$$

$$\Rightarrow \angle ACB + \angle ACD = 90^\circ$$

$$\Rightarrow \angle BCD = 90^\circ$$

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Question 135

In a right-angled triangle ABC, $\angle ABC = 90^\circ$, AB = 5 cm and BC = 12 cm. The radius of the circumcircle of the triangle ABC is

A 7.5 cm

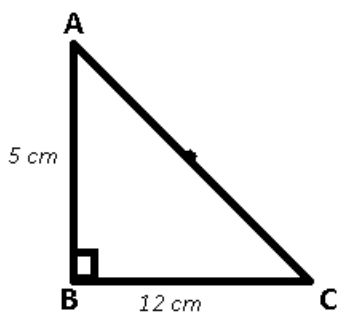
B 6 cm

C 6.5 cm

D 7 cm

Answer: C

Explanation:



In $\triangle ABC$

$$\Rightarrow AC = \sqrt{(AB)^2 + (BC)^2}$$

$$\Rightarrow AC = \sqrt{5^2 + 12^2} = \sqrt{169}$$

$$\Rightarrow AC = 13 \text{ cm}$$

In a right angled triangle, circumcentre lies on the mid point of hypotenuse.

$$\Rightarrow \text{circumradius} = \frac{AC}{2} = \frac{13}{2} = 6.5 \text{ cm}$$

Question 136

If the circumradius of an equilateral triangle ABC be 8 cm, then the height of the triangle is

A 16 cm

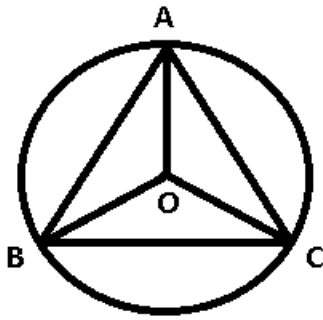
B 6 cm

C 8 cm

D 12 cm

Answer: D

Explanation:



Let ABC be the equilateral triangle and O be the circumcentre. AO extended meet BC at D.

In an equilateral triangle, the centroid, orthocentre, incentre and circumcentre, all lie on the same point, => the median and height are the same lines.

=> O is also the centroid of the triangle.

Since, the centroid divides the median in the ratio 2 : 1

It is given that OA = 8 cm

=> Height AD = $8 \times \frac{3}{2} = 12$ cm

Question 137

Two circles intersect at A and B. P is a point on produced BA. PT and PQ are tangents to the circles. The relation of PT and PQ is

A $PT = 2PQ$

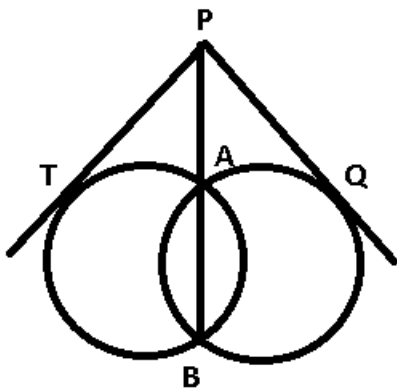
B $PT < PQ$

C $PT > PQ$

D $PT = PQ$

Answer: D

Explanation:



Using secant of a tangent property, we have

$$\Rightarrow PT^2 = PA \times PB$$

$$\text{and } PQ^2 = PA \times PB$$

$$\Rightarrow PT = PQ$$

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Question 138

If O is the circumcentre of triangle ABC and $OD \perp BC$, then $\angle BOD$ must be equal to

- A $\angle A$
- B $1/2 \angle A$
- C $1/2 \angle B$
- D $1/2 \angle C$

Answer: A

Explanation:

We know that angle subtended at centre by a chord will be twice the angle subtended on the circumference.

A is the angle subtended on circumference by BC. Hence, Angle BOC will be $2A$.

Angle BOD will be half the measure of angle BOC. Hence, angle BOD will be equal to A.

Option A is the correct answer.

Question 139

The numerical value of $\frac{1}{1+\cot^2\theta} + \frac{3}{1+\tan^2\theta} + 2\sin^2\theta$ is

- A 2
- B 5
- C 6
- D 3

Answer: D

Explanation:

$$\frac{1}{1+\cot^2\theta} + \frac{3}{1+\tan^2\theta} + 2\sin^2\theta$$

We know that,

$$1 + \cot^2\theta = \operatorname{cosec}^2\theta$$

$$1 + \tan^2\theta = \sec^2\theta$$

$$\frac{1}{\operatorname{cosec}^2\theta} + \frac{3}{\sec^2\theta} + 2\sin^2\theta$$

$$\sin^2\theta + 2\sin^2\theta + 3\cos^2\theta$$

$$3(\sin^2\theta + \cos^2\theta) = 3$$

Question 140

The value of $\frac{4}{1+\tan^2\alpha} + \frac{3}{1+\cot^2\alpha} + \sin^2\alpha$ is

- A 4
- B -1
- C 2
- D 3

Answer: A

Explanation:

we need to find the value of $1 + \tan^2 \alpha + 1 + \cot^2 \alpha + \sin^2 \alpha$

We know that ,

$$1 + \tan^2 \alpha = \sec^2 \alpha$$

$$1 + \cot^2 \alpha = \operatorname{cosec}^2 \alpha$$

Using above mentioned identities

$$\sec^2 \alpha + \operatorname{cosec}^2 \alpha + \sin^2 \alpha$$

$$4\cos^2 \alpha + 4\sin^2 \alpha$$

$$4(\cos^2 \alpha + \sin^2 \alpha)$$

$$=4$$

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Question 141

The value of $3(\sin x - \cos x)^4 + 6(\sin x + \cos x)^2 + 4(\sin^6 x + \cos^6 x)$ is

A 14

B 11

C 12

D 13

Answer: D

Explanation:

$$\begin{aligned}(\sin^6 x + \cos^6 x) &= ((\sin^2)^3 x + (\cos^2)^3 x) \\ &= ((\sin^2 x) + (\cos^2 x))((\sin^4 x) + (\cos^4 x) + \sin^2 x \cos^2 x) \\ &= (\sin^4 x) + (\cos^4 x) + 2\sin^2 x \cos^2 x - 3\sin^2 x \cos^2 x \\ &= (\sin^2 x + \cos^2 x)^2 - 3\sin^2 x \cos^2 x \\ &= 1 - 3\sin^2 x \cos^2 x\end{aligned}$$

$$(\sin x + \cos x)^2 = 1 + \sin x \cos x$$

$$\begin{aligned}(\sin x - \cos x)^4 &= (1 - 2\sin x \cos x)^2 \\ &= 1 + 4\sin^2 x \cos^2 x - 4\sin x \cos x\end{aligned}$$

$$\begin{aligned}3(\sin x - \cos x)^4 + 6(\sin x + \cos x)^2 + 4(\sin^6 x + \cos^6 x) &= 3(1 + 4\sin^2 x \cos^2 x - 4\sin x \cos x) + 6(1 + 2\sin x \cos x) + 4(1 - 3\sin^2 x \cos^2 x) \\ &= 3 + 12\sin^2 x \cos^2 x - 12\sin x \cos x + 6 + 12\sin x \cos x + 4 - 12\sin^2 x \cos^2 x \\ &= 13\end{aligned}$$

Option D is the correct answer.

Question 142

The value of $\left(\frac{1+\sin\theta}{\cos\theta} + \frac{\cos\theta}{1+\sin\theta}\right) - 2\tan^2\theta$ is

A 4

B $2\sec\theta + 2\tan^2\theta$

C $2\sec\theta - 2\tan^2\theta$

D $-2\sec\theta - 2\tan^2\theta$

Answer: C

Explanation:

$$\left(\frac{1+\sin\theta}{\cos\theta} + \frac{\cos\theta}{1+\sin\theta} \right) - 2\tan^2\theta$$

$$\frac{(1+\sin\theta)^2 + (\cos\theta)^2}{\cos\theta(1+\sin\theta)} - 2\tan^2\theta$$

$$\frac{1 + (\sin\theta)^2 + (\cos\theta)^2 + 2\sin\theta\cos\theta}{\cos\theta(1+\sin\theta)} - 2\tan^2\theta$$

using $\sin^2\theta + \cos^2\theta = 1$

$$\frac{1+1+2\sin\theta}{\cos\theta(1+\sin\theta)} - 2\tan^2\theta$$

$$\frac{2(1+\sin\theta)}{\cos\theta(1+\sin\theta)} - 2\tan^2\theta$$

$$2\sec\theta - 2\tan^2\theta$$

Question 143

If $\sin\theta + \operatorname{cosec}\theta = 2$ then the value of $\sin^5\theta + \operatorname{cosec}^5\theta$ is

A $1/2$

B 1

C 0

D 2

Answer: D

Explanation:

Since $\operatorname{cosec}\theta = \frac{1}{\sin\theta}$

$\sin\theta + \operatorname{cosec}\theta = 2$ becomes

$$\sin\theta + \frac{1}{\sin\theta} = 2$$

$$\sin^2\theta - 2\sin\theta + 1 = 0$$

which is $(\sin\theta - 1)^2 = 0$

$$\sin\theta = 1$$

$$\sin^5\theta + \operatorname{cosec}^5\theta = 1 + 1 = 2$$

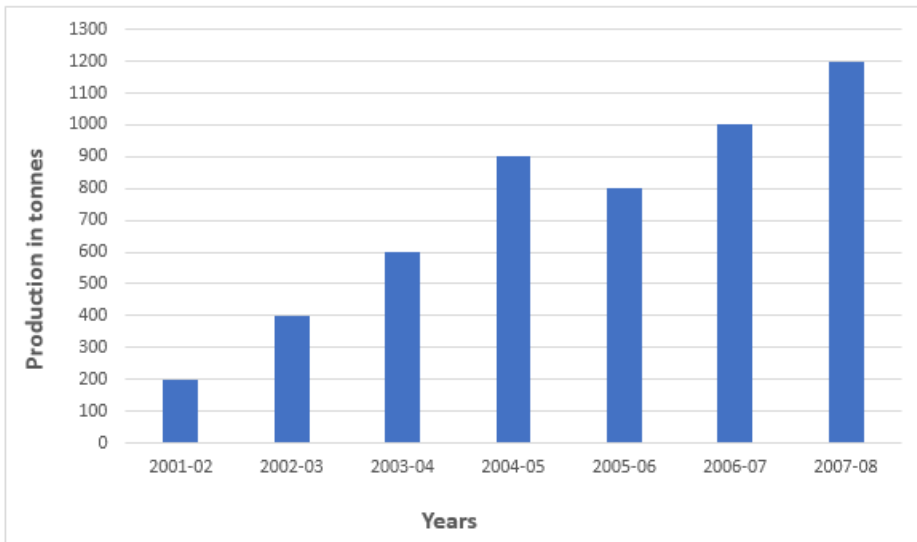
Hence Option D is the correct answer.

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Instructions

Study the chart carefully and answer the questions.

The chart shows production of an item (in tonnes) during certain years



Question 144

The production in 2006-07 in comparison to the production in 2002-03 increased by

- A 150%
- B 110%
- C 120%
- D 125%

Answer: A

Explanation:

Production in 2002-03 = 400

Production in 2006-07 = 1000

$$\begin{aligned} \Rightarrow \% \text{ increase} &= \frac{1000-400}{400} * 100 \\ &= \frac{600}{400} * 100 = 150\% \end{aligned}$$

Question 145

The production decreased from 2004-05 to 2005-06 by ?

- A $11\frac{1}{9}\%$
- B $8\frac{1}{9}\%$
- C $9\frac{1}{9}\%$
- D $10\frac{1}{9}\%$

Answer: A

Explanation:

Production in 2004-05 = 900

Production in 2005-06 = 800

$$\begin{aligned} \Rightarrow \% \text{ decrease} &= \frac{900-800}{900} * 100 \\ &= \frac{100}{9} = 11\frac{1}{9}\% \end{aligned}$$

Question 146

The year in which production increased the lowest as compared to the previous year is

- A 2007 - 08
- B 2003 - 04
- C 2004 - 05
- D 2006 - 07

Answer: A

Explanation:

Production in the year :

2001-02 = 200

2002-03 = 400

2003-04 = 600

2004-05 = 900

2005-06 = 800

2006-07 = 1000

2007-08 = 1200

$$\Rightarrow \% \text{ increase in 2002-03 as compared to previous year} = \frac{400-200}{200} * 100$$
$$= 100\%$$

$$\Rightarrow \% \text{ increase in 2003-04 as compared to previous year} = \frac{600-400}{400} * 100$$
$$= 50\%$$

$$\Rightarrow \% \text{ increase in 2004-05 as compared to previous year} = \frac{900-600}{600} * 100$$
$$= 50\%$$

\Rightarrow In 2005-06, there is no % increase as compared to previous year.

$$\Rightarrow \% \text{ increase in 2006-07 as compared to previous year} = \frac{1000-800}{800} * 100$$
$$= 25\%$$

$$\Rightarrow \% \text{ increase in 2007-08 as compared to previous year} = \frac{1200-1000}{1000} * 100$$
$$= 20\% \text{ [MIN]}$$

Thus, % increase is lowest in 2007-08 as compared to previous year

General Science Notes for SSC CGL

Question 147

The production from 2003 - 04 to 2007 - 08 increased by

- A 125%
- B 50%
- C 75%
- D 100%

Answer: D

Explanation:

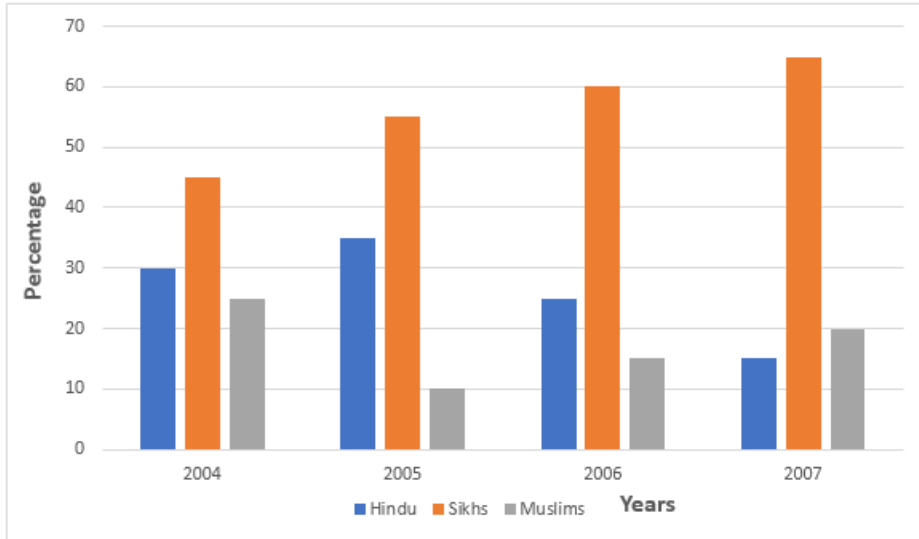
Production in 2003-04 = 600

Production in 2007-08 = 1200

$$\begin{aligned} \Rightarrow \% \text{ increase in production} &= \frac{1200-600}{600} * 100 \\ &= \frac{600}{600} * 100 = 100\% \end{aligned}$$

Instructions

The following bar diagram shows the percentage of Hindus, Sikhs and Muslims in a state during the years from 2004 to 2007. Examine the bar diagram and answer the following questions.



Question 148

The ratio between the Hindu and Sikh population in 2004 was

- A 3 : 5
- B 1 : 2
- C 2 : 3
- D 3 : 4

Answer: C

Explanation:

% of Hindi population in 2004 = 30

% of Sikh population in 2004 = 45

$$\Rightarrow \text{Required ratio} = \frac{30}{45} = 2 : 3$$

Question 149

If the total population of the state in 2004 was 5 lakhs, then the Hindu and Muslim population in that year was

- A 200000
- B 275000
- C 250000
- D 225000

Answer: B

Explanation:

Total population in 2004 = 5 lakhs

% of Hindu population = 30%

$$\begin{aligned} \Rightarrow \text{Hindu population in 2004} &= \frac{30}{100} * 5 \text{ lakhs} \\ &= 1,50,000 \end{aligned}$$

% of Muslim population = 25%

$$\begin{aligned} \Rightarrow \text{Muslim population in 2004} &= \frac{25}{100} * 5 \text{ lakhs} \\ &= 1,25,000 \end{aligned}$$

\Rightarrow Total Hindu & Muslim population in 2004 = 1,50,000 + 1,25,000 = 2,75,000

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Question 150

If the total population of the state in 2005 was 5 million, then the Hindu population was [1 million = 10,00,000]

A 2000000

B 1250000

C 1500000

D 1750000

Answer: D

Explanation:

Total population in 2005 = 5 million

% of Hindu population in 2005 = 35%

$$\begin{aligned} \Rightarrow \text{Total Hindu population in 2005} &= \frac{35}{100} * 5 \text{ million} \\ &= 17,50,000 \end{aligned}$$

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Reasoning

Instructions

For the following questions answer them individually

Question 151

Wine : Grape :: Whiskey : ?

A Orange

B Potato

C Oats

D Apple

Answer: C

Explanation:

Wine is made from grapes, similarly whiskey is made from oats.

=> Ans - (C)

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Question 152

600 : 2000 :: ? : 9000

- A 3000
- B 3600
- C 5400
- D 5600

Answer: D

Explanation:

Expression = 600 : 2000 :: ? : 9000

The pattern followed is = $(20 \times 30) : (40 \times 50) :: (x) : (90 \times 100)$

Following above pattern, we have $x = 70 \times 80 = 5600$

=> Ans - (D)

Question 153

XZG : CAT :: DOG : ?

- A TIW
- B GAD
- C OWT
- D WLT

Answer: D

Explanation:

Expression = XZG : CAT

The pattern followed is that each letter is replaced by the letter at its position, when the alphabets are reversed, i.e. first is replaced by last, second by second last and so on.

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

∴ DOG : WLT

=> Ans - (D)

Instructions

In each of the following questions, which one set of letters when sequentially placed at the gaps in the given letter series shall complete it ?

Question 154

aabab_ab_ab_bba

- A bbaa

- B baaa
- C abaa
- D abba

Answer: A

Explanation:

Upon placing the option 'bbaa' into the blanks, we have: baababbabaababba

Clearly, the pattern 'baababba' repeats .

baababba | baababba

Hence the answer is 'bbaa'.

Option A is the correct answer.

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Question 155

aa_baa__aaa_ba_ba

- A abba
- B abab
- C abaa
- D babb

Answer: C

Explanation:

abba: aaabaabaaabbaaba

abab: aaabaabaaaababba

abaa : aaabaabaaaabaaba

Clearly, the pattern 'aabaabaa' repeats here.a | aabaabaa | aabaaba

babb: aabbaaaaabbabba

Hence the answer is 'abaa'.

Option C is the correct answer.

Instructions

In each of the following questions, a series is given, with oneterm missing. Choose the correct alternative from the given ones that will complete the series.

Question 156

C2E, E5H, G 12K, I27N, ?

- A I58P
- B J58Q
- C K58Q
- D 157Q

Answer: C

Explanation:

The first letter of each term is the second letter from the first letter of its preceding term.

C D E F G H I.

The missing term should start with K.

The last letter of each term is the third letter from the last letter of its preceding term.

Hence the last term of the missing term is Q.

The numbers in each term is (n-1) more than twice the number in the previous term where n is position of the term.

1st term n=1

2nd term n=2 and so on.

The fifth term must be 4 more than twice of 27.

Hence the number in the fifth term is 58.

The missing term is K58Q.

Option C is the correct answer.

Question 157

BEH, DGJ, NQT, ?

A 111

B GHD

C JMP

D RMO

Answer: C

Explanation:

The second letter of each term is the third letter from the first letter of the term.

The third letter of each term is the second letter from the first letter of the term.

Out of the given options Option C suits the given conditions.

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Question 158

$ZA_5, Y_4B, XC_6, W_3D, ?$

A VE

B EV

C VE

D VD

Answer: A

Explanation:

The first letter of each term is the previous letter of the first letter in the preceding term.

The second letter of each term is the next letter of the first letter in the preceding term.

Hence the solution is VE.

Option A is the correct answer.

Question 159

deb, ijg, nol ? , xyv

A stq

B rsp

C rsq

D stp

Answer: A

Explanation:

The first two letters of every term are consecutive letters.

The third letter in each term is the preceding letter of the first letter.

The first letter of each term is the fifth letter from the first letter of the preceding term.

Hence the last term is stq.

Hence Option A is the correct answer.

Instructions

In each of the following questions, find the odd word/number pair from the given alternatives.

Question 160

A 543, 453

B 243, 432

C 234, 342

D 354, 543

Answer: A

Explanation:

In all the options but for the first, the position of all the three digits changes, but in the first option, the 3rd digit does not change its position.

=> Ans - (A)

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Question 161

A Vedanthangal

B Bandipur

C Mudumalai

D Thekkady

Answer: D

Explanation:

Vedanthangal, Bandipur and Mudumalai are National Parks or Wildlife Sanctuaries. Bandipur National Park is situated in Mysore, Karriataka. Mudumalai Wildlife Sanctumy and Vedantharigal Bird Sanctuaries are located in Tamil Nadu.

=> Ans - (D)

Question 162

A Internet Explorer

B Chrome

C Google

D Firefox

Answer: C

Explanation:

Google is a search engine while all others are web browsers.

=> Ans - (C)

Question 163

- A Opponent
- B Adversary
- C Ally
- D Antagonist

Answer: C

Explanation:

Ally is different from the other three words. Opponent, adversary and antagonist are synonyms meaning opponent.

=> Ans - (C)

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Question 164

- A Pentagon
- B Circle
- C Rhombus
- D Diagonal

Answer: D

Explanation:

Diagonal is a part of geometrical figure. All others are plane figures.

=> Ans - (D)

Question 165

Find the correct set of numbers from the given alternatives.

(4, 3, 2), (16, 9, 4), (256, 81, 16), (65536, ?, ?)

- A 6651, 286
- B 6561, 256
- C 1486, 97
- D 190, 20

Answer: B

Explanation:

The pattern followed for first number in each terms is :

$$(4)^2 = 16; (16)^2 = 256; (256)^2 = 65536$$

Similarly, for 2nd and 3rd numbers :

$$(3)^2 = 9; (9)^2 = 81; (81)^2 = 6561$$

and $(2)^2 = 4$; $(4)^2 = 16$; $(16)^2 = 256$

=> Ans - (B)

Instructions

In each of the following questions, select the missing number from the given responses.

Question 166

16	32	48	64
17	34	51	68
18	36	54	?

A 77

B 72

C 74

D 76

Answer: B

Explanation:

Each term in a particular row are multiples.

Hence the missing term is $18 \times 4 = 72$.

Hence Option B is the correct answer.

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Question 167

2311, 4529, ?, 8989

A 7243

B 6353

C 5662

D 6755

Answer: D

Explanation:

Consider the number 2311 as two numbers 23 and 11.

The difference between 45 and 23 = 22.

Hence the first two digits of the third term must be $45+2=67$.

$67+22=89$. This completes the series.

The last two digits is formed by

$$11+18+(8 \times 0) = 29$$

$$29+18+(8 \times 1) = 55$$

$$55+18+(8 \times 2) = 89 \text{ and so on}$$

Hence the last two digits of the third term is 55.

Hence the missing number is 6755.

Option D is the correct answer.

Question 168

21, 30, 38, ?, 51, 56, 60

- A 80
- B 35
- C 55
- D 45

Answer: D

Explanation:

The difference between each term decrease by 1 across the series.

$$30-21 = 9$$

$$38-30 = 8$$

$$56-51 = 5$$

Hence the number to be filled in the gap is 45.

$$45-38 = 7$$

$$51-45 = 6 \text{ and so on.}$$

Hence Option D is the correct answer.

Question 169

6, 14, 30, ?

- A 54
- B 29
- C 27
- D 33

Answer: A

Explanation:

The difference between each term is in increasing order of multiple of 8.

$$14-6 = 8 (8 \times 1)$$

$$30-14 = 16 (8 \times 2)$$

Hence the next term will be 24 more than 30.

$$30+24 = 54$$

Hence Option A is the correct answer.

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Question 170

4	5	10
36 2	49 2	? 2

- A 144
- B 55
- C 100
- D 64

Answer: A

Explanation:

The missing number is the square of sum of the number at the top and 2 .

$$4+2 = 6$$

$$6^2 = 36$$

$$5+2 = 7$$

$$7^2 = 49$$

$$10+2 = 12$$

$$12^2 = 144$$

Hence Option A is the correct answer.

Question 171

5	1	25
6	2	18
10	4	25
3	3	?

A 10

B 9

C 3

D 4

Answer: C

Explanation:

(Square of Value in Column 1) divided by Value in Second Column = Value in Third Column

$$\frac{3^2}{3} = 3$$

Hence Option C is the correct answer.

Instructions

For the following questions answer them individually

Question 172

Six girls are standing in such a way that they form a circle, facing the centre. Subbu is to the left of Pappu, Revathi is between Subbu and Nisha, Aruna is between Pappu and Keerthana. Who is to the left of Pappu ?

A Subbu

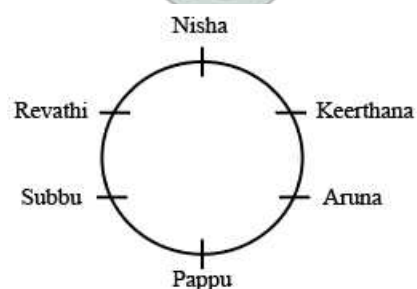
B Keerthana

C Nisha

D Aruna

Answer: A

Explanation:



Hence, Subbu is to the left of pappu.

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Question 173

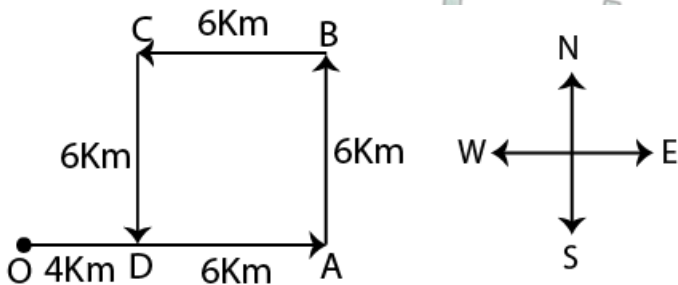
Naseebah runs for 10 km in the eastern direction. She then turns left and starts walking for 6 km. Again, she turns left and starts running for 6 km. Then she turns left and walks again for 6 km. How far is she from the starting point ?

- A 4 km
- B 5 km
- C 6 km
- D 3 km

Answer: A

Explanation:

The path taken by Naseebah can be traced as O-A-B-C-D.



we can see that she is 4 km from the starting point in the East. option A.

Question 174

In the following problem,

= stands for ÷

+ stands for -

× stands for =

- stands for >

> stands for +

< stands for ×

÷ stands for <

When these new symbols are substituted, only one will be wrong. Identify the wrong one.

- A $4 < 2 + 5 + 8 \times 5$
- B $4 = 2 + 5 > 8 \times 5$
- C $4 < 2 > 5 + 8 \times 5$
- D $4 > 2 < 5 + 8 - 5$

Answer: A

Explanation:

Option (A) : $4 < 2 + 5 + 8 \times 5$ is same as $4 \times 2 - 5 - 8 = 5$. Clearly, -5 is not equal to 5 .

Hence, Option A.

Instructions

In each of the following questions, from the given alternative words, select the word which cannot be formed using the letters of the given word.

Question 175

TENDENTIOUS

- A INTENTION
- B DENTIST
- C TENT
- D STUDENT

Answer: A

Explanation:

From the given alternatives only the word INTENTION cannot be completely formed using the letters of the word TENDENTIOUS as INTENTION will require an extra 'N' from TENDENTIOUS. therefore the correct answer is option A.

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Question 176

INTERNATIONAL

- A ORIENTAL
- B RATIONALE
- C LATTER
- D TERMINAL

Answer: D

Explanation:

From the given alternatives the word TERMINAL cannot be completely formed using the letters of the word INTERNATIONAL because of the missing 'M' in INTERNATIONAL. therefore the correct answer is option D.

Question 177

DEPRECIATE

- A PEACE
- B REPRIEVE
- C CREDIT
- D PRIDE

Answer: B

Explanation:

From all the given alternatives the word REPRIEVE cannot be completely formed using the letters of the word DEPRECIATE because of the missing 'V'. therefore the correct answer is option B.

Instructions

For the following questions answer them individually

Question 178

Select the correct combination of mathematical signs to replace * signs and to balance the given equation. $8 * 6 * 96 * 2 = 0$

A $x \div -$

B $x - \div$

C $-x \div$

D $\div - x$

Answer: B

Explanation:

If $8 * 6 * 96 * 2 = 0$ then $8 \times 6 - 96 \div 2 = 48 - 48 = 0$, can be a solution. which is option B.

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Question 179

If P denotes \div , Q denotes \times . R denotes $+$ and S denotes $-$, then $12 Q 15 P 3 R 4 S 6 = ?$

A 70

B 57

C 58

D 68

Answer: C

Explanation:

Expression : $12 Q 15 P 3 R 4 S 6 = ?$

$$\equiv 12 \times 15 \div 3 + 4 - 6$$

$$= 12 \times 5 - 2$$

$$= 60 - 2 = 58$$

=> Ans - (C)

Question 180

You have to follow the symbolic interpretation to solve the question.

$+$ = Greater than

\times = Equal to

$-$ = Not less than

L = Not equal to

| = Less than

Φ = Not greater than

Then if $A - B \Phi C$, which of the following is implied ?

A $A | B + C$

B $A | B | C$

C $A + B - C$

D $A L B | C$

Answer: C

Explanation:

Expression : $A - B \Phi C$

$$\equiv A \geq B \leq C$$

(A) : $A | B + C$

$$\equiv A < B > C \text{ [Not true]}$$

(B) : $A | B | C$

$$\equiv A < B < C \text{ [Not true]}$$

(C) : $A + B - C$

$$\equiv A > B \geq C \text{ [True, if } B=C]$$

=> Ans - (C)

Question 181

If A stands for +, Q stands for -, V stands for \times , R stands for \div , then what is the value of the given equation ?
225 R 5 A 64 Q 16 V 6=?

A 376

B 13

C 476

D 576

Answer: B

Explanation:

from the above conditions:

$$225 \text{ R } 5 \text{ A } 64 \text{ Q } 16 \text{ V } 6 = 225 \div 5 + 64 - 16 \times 6 = 13.$$

option B.

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Question 182

If each of the letters in the English alphabet is assigned an even numerical value beginning A = 2, B = 4 and so on, what will be the total value of the letters for the word INDIA?

A 72

B 86

C 74

D 94

Answer: C

Explanation:

If each of the letters in the English alphabet is assigned an even numerical value beginning A = 2, B = 4 and so on, then INDIA will total to:

$$I=18, N=28, D=8, I=18, A=2.$$

$18+28+18+8+2=74$. hence the correct answer is option C.

Question 183

If 'STYLE' is written as PQVIB, how can 'SMELL' be written in that code ?

A PJBII

- B PVBII
- C PVHII
- D PJHII

Answer: A

Explanation:

If 'STYLE' is written as PQVIB, then it can be inferred that each letter is represented by the letter that comes before it by 2 places. Similarly SMELL can be coded as PJBII. the correct answer is option A.

Question 184

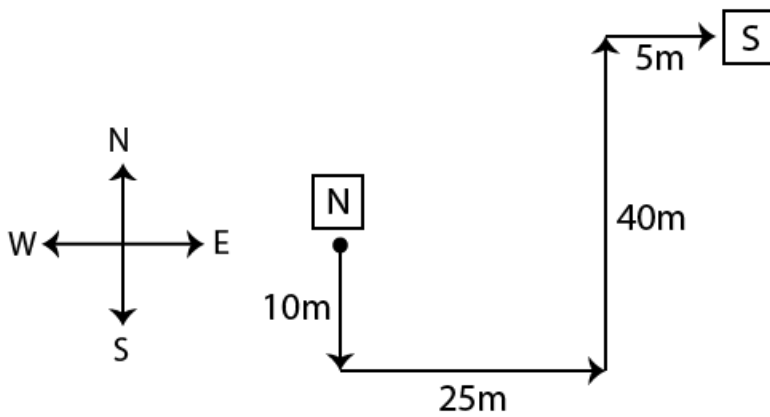
Ram walks 10 m South from his house, turns left and walks 25 m, again turns left and walks 40 m, then turns right and walks 5 m to reach the school. In which direction is the school from his house ?

- A North
- B South-West
- C North-East
- D East

Answer: C

Explanation:

path of Ram can be traced as follows



therefore the answer is North-East. option C.

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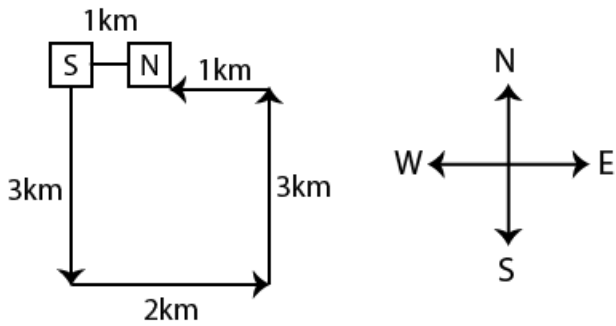
Question 185

A boy was misdirected from his way while returning to his home from his school. In order to reach his home, he first moved 3 km in south direction and then turned to his left and moved 2 km in straight direction on the road leading to the east. From there, he moved to his left and walked 3 km. After this, he again turned to his left and moved 1 km. Finally he reached his home. The home of the boy was in which direction from his school ?

- A South
- B West
- C North
- D East

Answer: D

Explanation:



his home(H) is 1km east from his school(S). the correct answer is option D.

Question 186

If SENT is written as '+ Λ × -' and ANT is written as '* × -' then how is TEN written in that code ?

- A × + -
- B - Λ ×
- C * - ×
- D - × Λ

Answer: B

Explanation:

If SENT is written as '+ Λ × -' then inferring from the sequence TEN can be written as '- Λ ×'. option B.

Instructions

In each of the following questions, a statement is given followed by two conclusions/ assumptions. You have to consider the statement to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions/ assumptions, if any, follow from the given statement.

Question 187

Statement : If people are intelligent they should be creative.

Assumptions :

- I. Creativity and intelligence are related.
- II. Creative people are intelligent.

- A Both assumptions I and II are invalid.
- B Only assumption I is valid
- C Only assumption II is valid
- D Both assumptions I and II are valid.

Answer: B

Explanation:

The first assumption is valid. It is clear that creativity and intelligence are related. Assumption II is not an assumption at all. It is mere restatement of the given statement.

Thus, only assumption I is valid.

=> Ans - (B)

Question 188

Statement : A friend in need is a friend indeed.

Conclusions :

I. All are friends in good times.

II. Enemies in bad times are not friends.

- A Neither Conclusion I nor II follows.
- B Only Conclusion 1 follows.
- C Only Conclusion H follows.
- D Both Conclusions I and II follow.

Answer: A

Explanation:

A friend who offers help in time of need is a true friend. The use of term 'All' in the first conclusion makes it invalid. Conclusion II does not express the inherent meaning of the statement.

Thus, neither Conclusion I nor II follows.

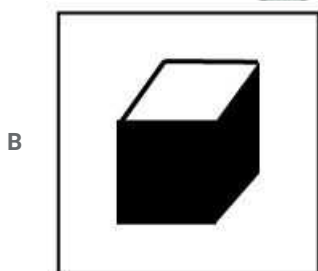
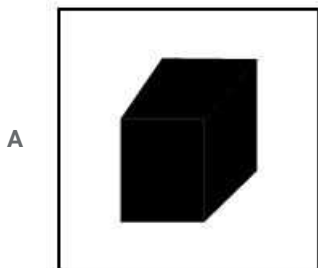
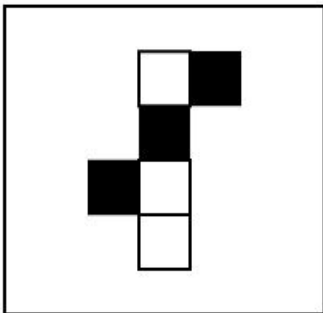
=> Ans - (A)

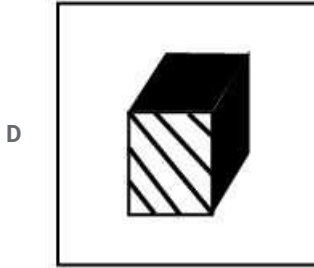
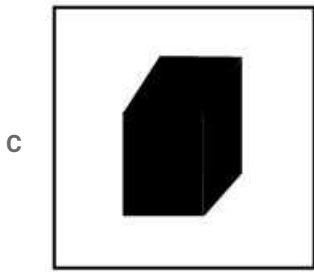
Instructions

For the following questions answer them individually

Question 189

Which of the four cubes given in the answer figure can be created by folding the design in question figure ?





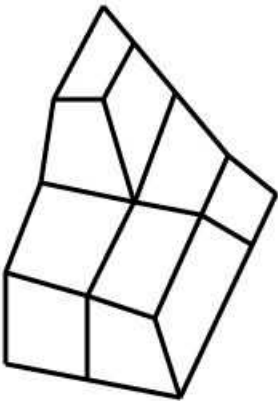
Answer: B

Explanation:

In the given figure, only 3 sides are darkened. Hence the final cube must have 3 dark sides and one white side. Hence, Option B.

Question 190

The figure below is a drawing of a pile of blocks. When taken apart, how many blocks would be there ?



A 6

B 3

C 4

D 5

Answer: D

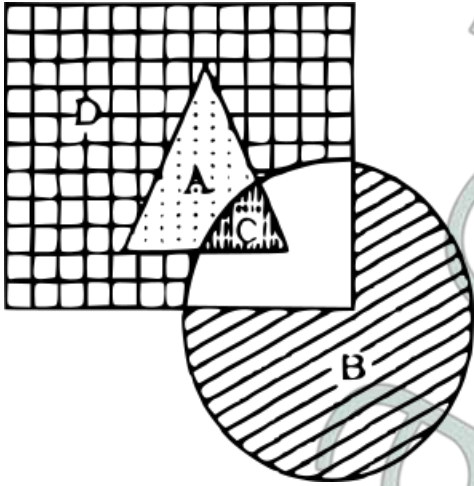
Explanation:

Four blocks are visible. And there is a block hidden under the top layer box.

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Question 191

In the following diagram, the triangle represents Mothers, circle represents Teachers and the rectangle stands for Women. Which letter (out of A, B, C and D) represents women who are mothers as also teachers ?



A B

B D

C C

D A

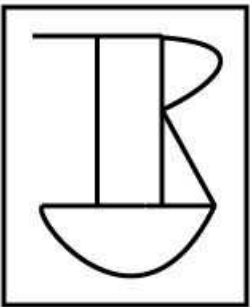
Answer: C

Explanation:

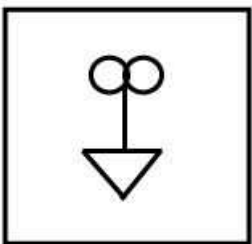
Given, the triangle represents Mothers, circle represents Teachers and the rectangle stands for Women. Women who are mothers as also teachers is represented by overlapping triangle and circle. Hence, C.

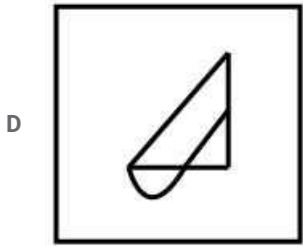
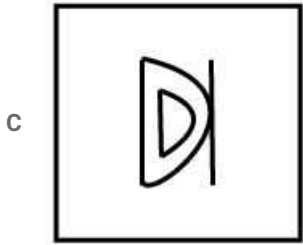
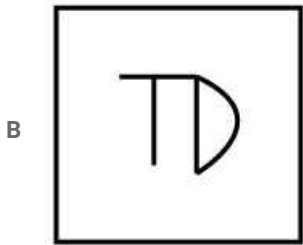
Question 192

Which of the answer figures is not made up of only the components of the key figure.



A





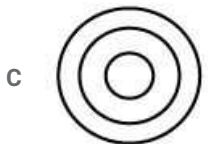
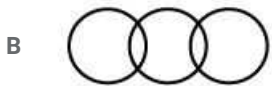
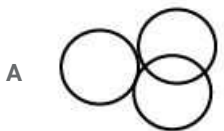
Answer: A

Explanation:

Clearly, Option A has 2 circles which are not present in the question. Hence, the Option A figure is not made up of only the components of the key figure

Question 193

Which one of the following diagrams represents the correct relationship among Poison, Bio-products and Food ?



Answer: B

Explanation:

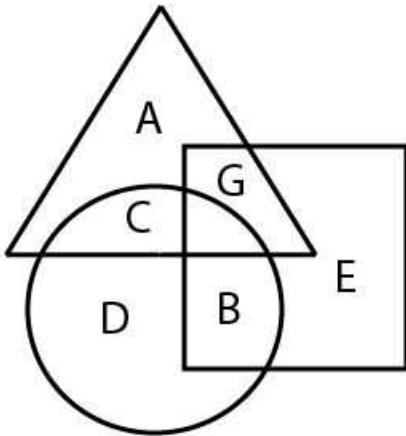
Some Poisons are Bio-products and Bio-products are Food. But food is not poison.

Hence, Option B.

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Question 194

In the given figure the triangle represents people who visited Mysore; the circle represents people who visited Ooty, the square represents people who visited Munnar. The portion which represents people who visited both Mysore and Ooty is



A D

B G

C B

D C

Answer: D

Explanation:

In the given figure the triangle represents people who visited Mysore; the circle represents people who visited Ooty, the square represents people who visited Munnar. The portion which represents people who visited both Mysore and Ooty is overlapped by triangle and circle only

Hence, C is the part

Instructions

In the following questions, which answer figure will complete the pattern in the question figure.

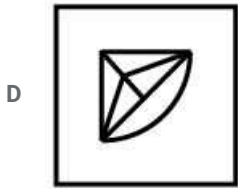
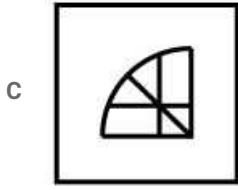
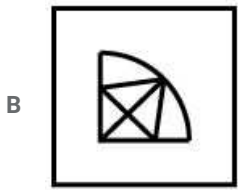
Question 195

Find out which answer figures will exactly make up the question figure ?



A





Answer: D

Explanation:

To get the missing part, flip the top part along the vertical axis. Hence, Option D is what we get.

Question 196



Answer: B

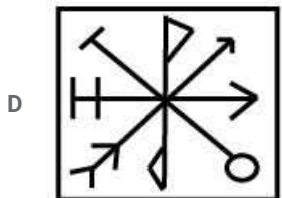
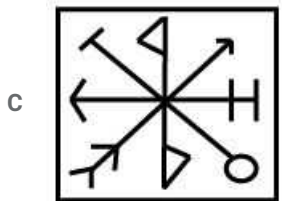
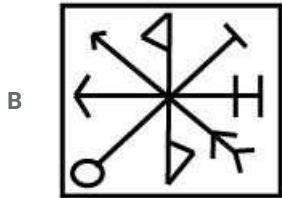
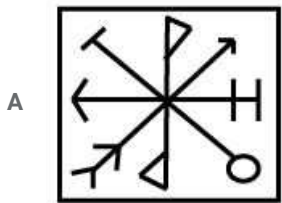
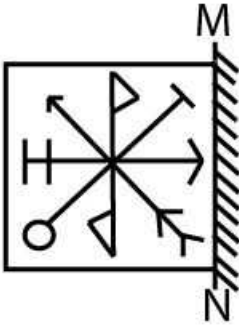
Explanation:

To get the missing part , flip the top left hand side quarter part along the horizontal axis.
Hence, Option B.

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Question 197

From the answer figures, find out the figure which is the exact mirror image of the question figure, when the mirror is placed on the line 'MN'.



Answer: C

Explanation:

To get the mirror image , flip the image along the vertical axis.
Hence, Option C .

Question 198

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as in the matrix given below. The columns and rows of Matrix are numbered from 0 to 6. A letter from the matrix can be represented first by its row and next by its column, e.g., 'A' can be represented by 42, 62, etc. and 'P' can be represented by 15, 43, etc. Similarly, you have to identify the set for the word 'SNOW'.

0	1	2	3	4	5	6
1	H	R	E	I	P	S
2	S	G	N	D	Z	J
3	B	U	F	T	K	L
4	V	A	P	C	Y	A
5	M	W	C	O	X	N
6	B	A	E	I	L	O

- A 21, 14, 22, 56
- B 21, 56, 62, 44
- C 16, 56, 46, 35
- D 21, 23, 54, 52

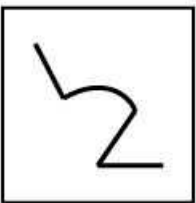
Answer: D

Explanation:

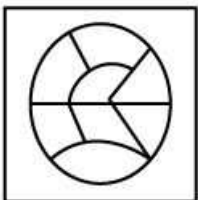
S can be 21 or 16
 N can be 23 or 56
 O can be 54 or 66
 W can be 52
 Hence, Option D

Question 199

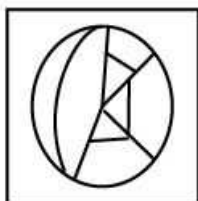
From the given answer figures, select the one in which the question figure is hidden/embedded.

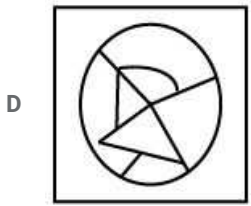
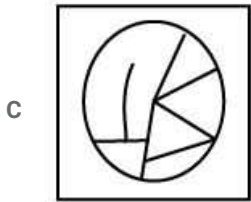


A



B





Answer: A

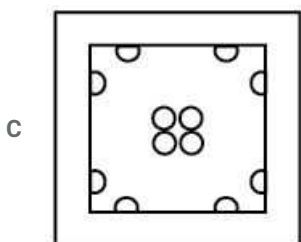
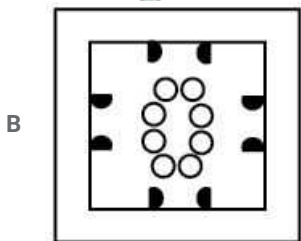
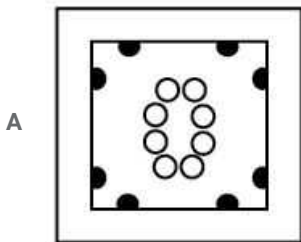
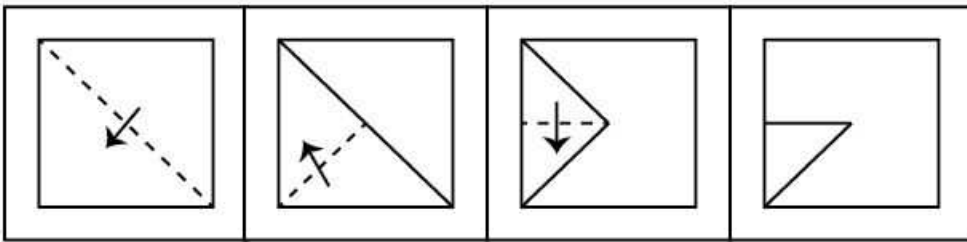
Explanation:

Clearly, the given shape in the question can be found in Option A

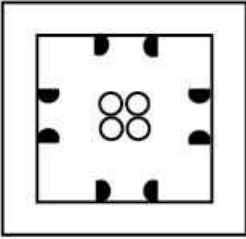
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Question 200

A piece of paper is folded and punched as shown below in the question figures. From the given answer figures, indicate how it will appear when opened.



D



Answer: C

Explanation:

Following the steps in the reverse order, Clearly , Option C can be formed.

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