



2017 SSC CGL 08 Aug Shift-1

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Reasoning

Instructions

For the following questions answer them individually

Question 1

In the following question, select the related word from the given alternatives.

Car : Road :: Ship : ?

- A Water
- B Air
- C Road
- D Both Air and Water

Answer: A

Explanation:

A car travels on the road, similarly a ship sails on the water.

=> Ans - (A)

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Question 2

In the following question, select the related letters from the given alternatives.

GLOW : FJNU :: PTEL : ?

- A ORFN
- B ORDJ
- C ORJD
- D OPNF

Answer: B

Explanation:

Expression = GLOW : FJNU :: PTEL : ?

The pattern followed is :

G	L	O	W
(-1)	(-2)	(-1)	(-2)
F	J	N	U

Similarly, for PTEL :

P	T	E	L
(-1)	(-2)	(-1)	(-2)
O	R	D	J

=> Ans - (B)

Question 3

In the following question, select the related number from the given alternatives.

5 : 124 :: 6 : ?

- A 215

- B 216
- C 217
- D 220

Answer: A

Explanation:

Expression = $5 : 124 :: 6 : ?$

The pattern followed is $n : n^3 - 1$

Eg = $5 : 5^3 - 1 = 5 : 124$

Similarly, $6^3 - 1 = 216 - 1 = 215$

=> Ans - (A)

Question 4

In the following question, select the odd word pair from the given alternatives.

- A Error : Accurate
- B Careless : Casual
- C Strength : Lethargy
- D Gloomy : Cheerful

Answer: B

Explanation:

Error is the opposite of accurate. Similarly, the last two options follow the same pattern.

But careless and casual are synonyms, thus it's the odd one.

=> Ans - (B)

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Question 5

In the following question, select the odd letters from the given alternatives.

- A FUGT
- B KPLO
- C DWEV
- D CWDX

Answer: D

Explanation:

The pattern followed is that the first and third letters when taken in that order forms consecutive letters of English alphabets and also the 4th and 2nd letters respectively are the consecutive letters in English alphabets.

But this pattern is not observed in the last option.

=> Ans - (D)

Question 6

In the following question, select the odd number pair from the given alternatives.

A 11 - 120

B 17 - 290

C 21 - 442

D 12 - 145

Answer: A

Explanation:

The pattern here followed is $n : n^2 + 1$

(A) : $11^2 + 1 = 121 + 1 = 122 \neq 120$

(B) : $17^2 + 1 = 289 + 1 = 290$

(C) : $21^2 + 1 = 441 + 1 = 442$

(D) : $12^2 + 1 = 144 + 1 = 145$

=> Ans - (A)

Question 7

Arrange the given words in the sequence in which they occur in the dictionary.

1. Pragmatic
2. Protect
3. Pastel
4. Postal
5. Pebble

A 43521

B 35412

C 34512

D 43512

Answer: B

Explanation:

As per the dictionary,

= Pastel -> Pebble -> Postal -> Pragmatic -> Protect

≡ 35412

=> Ans - (B)

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Question 8

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series.

Q, P, O, N, ?

A M

B L

C O

D J

Answer: A

Explanation:

The given series is the English alphabetical series in reverse order starting from Q.

Thus, the alphabet preceding N is 'M'

=> Q, P, O, N, **M**

=> Ans - (A)

Question 9

In the following question, select the missing number from the given series.

6, 9, 15, 24, 39, 63, ?

A 97

B 115

C 102

D 124

Answer: C

Explanation:

In the given series, first number + second number = next number

$$6 + 9 = 15$$

$$9 + 15 = 24$$

$$15 + 24 = 39$$

$$24 + 39 = 63$$

$$39 + 63 = \mathbf{102}$$

=> Ans - (C)

Question 10

P and Q are brothers. P is the father of S. R is the only son of Q and is married to U. How is U related to S?

A Sister-in-law

B Mother-in-law

C Sister

D Mother

Answer: A

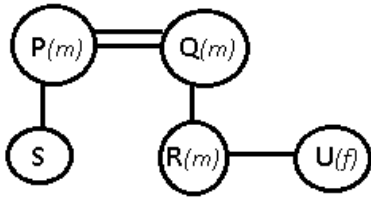
Explanation:

P and Q are brothers and P is the father of S.

=> S can be either son or daughter of P.

R is the son of Q and is the husband of U.

=> S and R are cousins.



Thus, U is the sister-in-law of S.

=> Ans - (A)

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Question 11

Nine years later, age of B will be equal to the present age of A. Sum of A's age 3 years later and B's age 4 years ago is 76. If C is half of the present age of B, then what will be C's age (in years) after 10 years?

- A 32
- B 36
- C 27
- D 31

Answer: C

Explanation:

Let A's present age = x years

=> B's present age = $(x - 9)$ years

According to ques,

$$\Rightarrow (x + 3) + (x - 9 - 4) = 76$$

$$\Rightarrow 2x - 10 = 76$$

$$\Rightarrow 2x = 76 + 10 = 86$$

$$\Rightarrow x = \frac{86}{2} = 43$$

Thus, B's present age = $43 - 9 = 34$

=> C's present age = $\frac{34}{2} = 17$ years

\therefore C's age after 10 years = $17 + 10 = 27$ years

=> Ans - (C)

Question 12

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

- A Biner
- B Gone
- C Bane
- D Hinge

Answer: C

Explanation:

The word HERRINGBONE does not contain any 'A', and thus the word 'Bane' cannot be formed from it.

=> Ans - (C)

Question 13

In a certain code language, "NIGHT" is written as "ODDGM" and "DARK" is written as "GOYC". How is "GREEN" written in that code language?

- A IABPF
- B MCBNB
- C OGHVL
- D FPBAI

Answer: A

Explanation:

Given : "NIGHT" is written as "ODDGM"

If we reverse the code, then pattern followed will be :

N	I	G	H	T
(-1)	(-2)	(-3)	(-4)	(-5)
M	G	D	D	O

Code for DARK when reversed will be CYOG

D	A	R	K
(-1)	(-2)	(-3)	(-4)
C	Y	O	G

Similarly, for GREEN :

G	R	E	E	N
(-1)	(-2)	(-3)	(-4)	(-5)
F	P	B	A	I

Thus GREEN : **IABPF**

=> Ans - (A)

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Question 14

In the following question, correct the equation by interchanging two signs.

$$4 \times 3 - 6 \div 2 + 7 = 8$$

- A x and +
- B x and -
- C ÷ and x
- D - and +

Answer: D

Explanation:

Expression : $4 \times 3 - 6 \div 2 + 7 = 8$

By exchanging :

(A) : x and +

$$\begin{aligned} \text{L.H.S.} &= 4 + 3 - 6 \div 2 \times 7 \\ &= 7 - 21 = -14 \neq \text{R.H.S.} \end{aligned}$$

(B) : \times and $-$

$$\begin{aligned} \text{L.H.S.} &= 4 - 3 \times 6 \div 2 + 7 \\ &= 11 - 9 = 2 \neq \text{R.H.S.} \end{aligned}$$

(C) : \div and \times

$$\begin{aligned} \text{L.H.S.} &= 4 \div 3 - 6 \times 2 + 7 \\ &= 1.34 - 5 = -3.66 \neq \text{R.H.S.} \end{aligned}$$

(D) : $-$ and $+$

$$\begin{aligned} \text{L.H.S.} &= 4 \times 3 + 6 \div 2 - 7 \\ &= 12 + 3 - 7 = 8 = \text{R.H.S.} \end{aligned}$$

\Rightarrow Ans - (D)

Question 15

If $3 \% 8 \# 4 = 6$ and $9 \% 4 \# 3 = 12$, then
 $12 \% 6 \# 24 = ?$

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

Answer: B

Explanation:

The pattern followed is $a \% b \# c = a \times \frac{b}{c}$

$$\text{Eg : } 3 \# 8 \% 4 = 3 \times \frac{8}{4} = 3 \times 2 = 6$$

$$\text{and, } 9 \% 4 \# 3 = 9 \times \frac{4}{3} = 3 \times 4 = 12$$

$$\text{Similarly, } 12 \% 6 \# 24 = 12 \times \frac{6}{24} = 6 \times \frac{1}{2} = 3$$

\Rightarrow Ans - (B)

Question 16

In the following question, select the number which can be placed at the sign of question mark (?) from the given alternatives.

7	6	3
2	5	1
8	9	4
115	273	?

- A 14
- B 15
- C 16
- D 18

Answer: B

Explanation:

In the first column, element at the end = product of all the elements + 3

Eg : $(7 \times 2 \times 8) + 3 = 115$

Also, $(6 \times 5 \times 9) + 3 = 273$

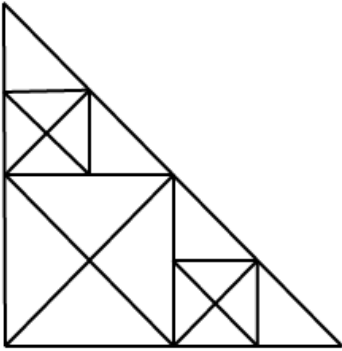
Similarly, $(3 \times 1 \times 4) + 3 = 15$

=> Ans - (B)

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Question 17

How many triangles are there in the given figure ?



A 32

B 34

C 37

D 40

Answer: C

Question 18

In each of the following question below are given some statements followed by some conclusions. Taking the given statements to be true even if they seem to be at variance from commonly known facts, read all the conclusions and then decide which of the given conclusion logically follows the given statements.

Statements:

I. Some boys are hardworking.

II. No intelligent are boys.

Conclusions:

I. Some hardworking are not intelligent.

II. All hardworking are intelligent.

III. Some intelligent are not hardworking.

A Only conclusion (I) follows.

B Only conclusion (I) and (III) follow.

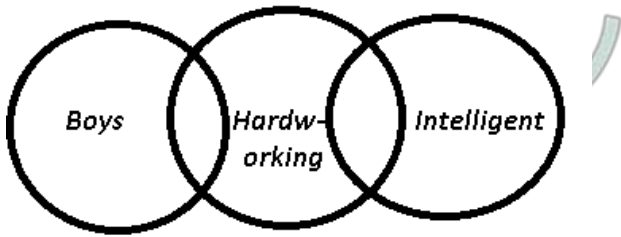
C All conclusions follow.

D No conclusion follows.

Answer: A

Explanation:

The venn diagram for above statements is :



Conclusions:

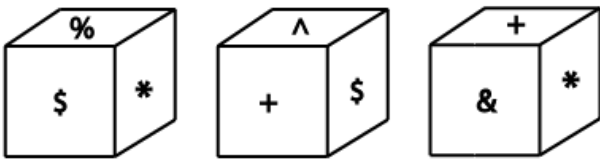
- I. Some hardworking are not intelligent = True (Boys who are hard working cannot be intelligent)
- II. All hardworking are intelligent = false (We can't conclude)
- III. Some intelligent are not hardworking = false (We can't conclude)

Thus, only conclusion I follows.

=> Ans - (A)

Question 19

Three positions of a cube are shown below. What will come opposite to face containing \$?



- A %
- B &
- C ^
- D +

Answer: B

Explanation:

From the first 2 figures, it is evident that +, ^, * and % will not face '\$' as they all are adjacent to it.

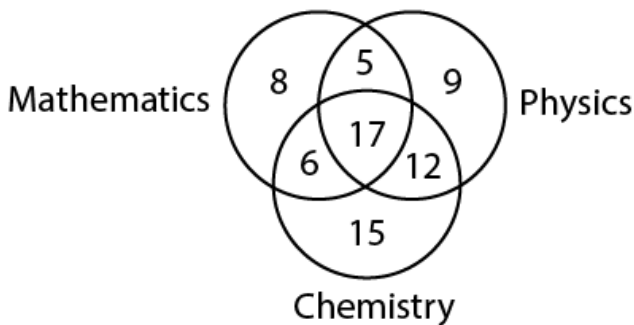
From the third figure, there is only one remaining figure which will face '\$' that is = '&'

=> Ans - (B)

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Question 20

In the given figure, how many people can study only 2 subjects ?



- A 11
- B 23
- C 12

D 40

Answer: B

Explanation:

People who study only Mathematics and Chemistry = 6

People who study only Chemistry and Physics = 12

People who study only Mathematics and Physics = 5

=> People who can study only 2 subjects = $6+12+5 = 23$

=> Ans - (B)

Question 21

Which answer figure will complete the pattern in the question figure?



Answer: A

Explanation:

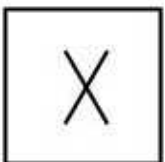
Clearly, the missing figure is the lower left sided quadrant of a circle with 2 rings in the middle of the square (thus figure 3 is eliminated).

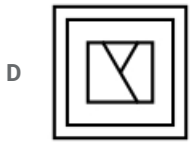
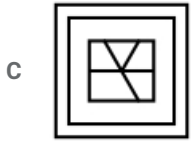
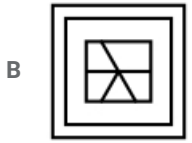
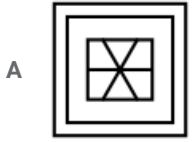
Also, the triangle should face upwards. Thus, first is the correct choice.

=> Ans - (A)

Question 22

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





Answer: A

Explanation:



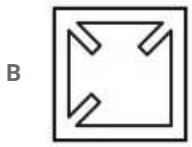
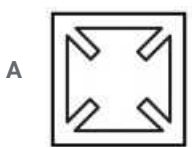
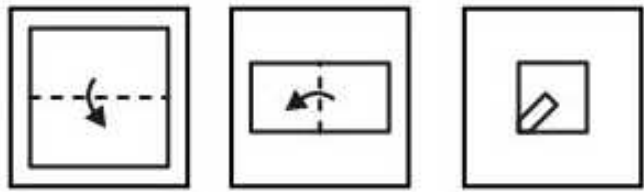
The question figure is shown in above figure in blue colour. Thus, first is the correct choice.

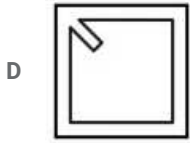
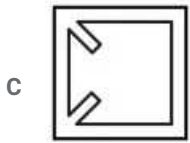
=> Ans - (A)

General Science Notes for SSC CGL

Question 23

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





Answer: A

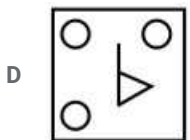
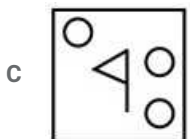
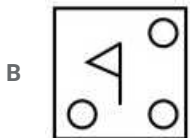
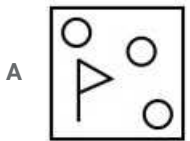
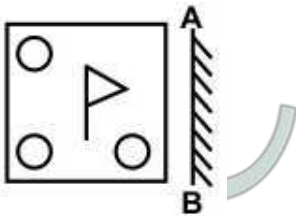
Explanation:

The paper is fold back into a square form and the cut is made at one of the diagonals, thus when the paper is unfolded, the cuts will appear at all the 4 diagonals, which is perfectly described by the first figure.

=> Ans - (A)

Question 24

If a mirror is placed on the line AB, then which of the answer figures is the right image of the given figure?



Answer: B

Explanation:

A vertical mirror is placed, the bottom two circle will remain as it is, but the circle at top left will appear at top right in the mirror.

Also, the flag will be reversed, that is, will point at left, which is described by the second figure.

=> Ans - (B)

Question 25

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 shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example, 'C' can be represented by 10, 34, etc., and 'D' can be represented by 85, 98, etc. Similarly, you have to identify the set for the word "STEAL".

Matrix - I

	0	1	2	3	4
0	T	S	C	K	E
1	C	K	E	T	S
2	K	E	S	C	T
3	S	T	K	E	C
4	E	C	T	S	K

Matrix - II

	5	6	7	8	9
5	P	D	A	I	L
6	L	I	D	A	P
7	I	A	L	P	D
8	D	P	I	L	A
9	A	L	P	D	I

A 01, 13, 04, 76, 66

B 14, 31, 40, 95, 59

C 22, 42, 21, 69, 97

D 43, 24, 33, 57, 58

Answer: B

Explanation:

(A) : 01, 13, 04, 76, 66 = STEAI

(B) : 14, 31, 40, 95, 59 = **STEAL**

(C) : 22, 42, 21, 69, 97 = STEPP

(D) : 43, 24, 33, 57, 58 = STEAI

=> Ans - (B)

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General Awareness

Instructions

For the following questions answer them individually

Question 26

Which one of the following is a component of Food Security System?

A Buffer stock

B Minimum support price

C Fair price shops

D Mid day meals

Answer: A

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Question 27

What is the accepted average Calorie requirement for rural area in India?

- A 2100
- B 2200
- C 2300
- D 2400

Answer: D

Question 28

Whose recommendation is mandatory to impeach the President of India from his office before the completion of his/her term?

- A The Prime Minister
- B The Speaker of the Lok Sabha
- C The Chief Justice of India
- D The two houses of the parliament

Answer: D

Question 29

How many types of writ are there in the Indian Constitution?

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

Answer: A

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Question 30

Who has built the Vijay Stambha (Tower of Victory) in Chittorgarh?

- A Maharana Pratap
- B Rana Kumbha
- C Rana Sanga
- D Kunwar Durjan Singh

Answer: B

Question 31

Who raised the slogan "Swaraj is my birthright and I shall have it"?

- A Mahatma Gandhi
- B Subhash Chandra Bose

C Bal Gangadhar Tilak

D Lala Lajpat Rai

Answer: C

Question 32

Which Indian state is the largest in terms of the total area covered ?

A Maharashtra

B Madhya Pradesh

C Rajasthan

D Tamil Nadu

Answer: C

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Question 33

Which Indian state has the longest Coastline?

A Kerala

B Gujarat

C Andhra Pradesh

D Tamil Nadu

Answer: B

Question 34

Auxiliary bud develops into which part of the plant?

A Fruit

B Leaf

C Branch

D Roots

Answer: C

Question 35

Xylem helps in transportation of which of the following?

A Food

B Water

C Nutrients

D Both food and water

Answer: B

Question 36

Who proposed five kingdom classification?

- A Ernst Mayr
- B R. H. Whittaker
- C M. W. Beijerinck
- D D. I. Ivanovsky

Answer: B

Question 37

What is the other name of Galileo's law of falling bodies?

- A Law of motion
- B Newton's first law
- C Newton's second law
- D Newton's third law

Answer: B

Question 38

Which device is best suited for measuring the temperature inside metallurgical furnaces?

- A Pyrometer
- B Thermocouple
- C Thermometer
- D Thermistor

Answer: A

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Question 39

What is the full form of 'LAN'?

- A Line Area Network
- B Linear Area Network
- C Local Area Network
- D Land Area Network

Answer: C

Question 40

Which acid is released when an Ant bites?

- A Hydrochloric Acid
- B Formic Acid
- C Acetic Acid
- D Phosphoric Acid

Answer: B

Question 41

Which among the following is an example of solid sol?

- A Milk of magnesia
- B Foam
- C Coloured gemstones
- D Rubber

Answer: C

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Question 42

Which metal is responsible for Itai-Itai disease?

- A Cadmium
- B Nickel
- C Chromium
- D Mercury

Answer: A

Question 43

'Vikalp' is a scheme launched by Indian Railways to help wait-listed passengers. Which of the following is NOT true about this scheme?

- A Confirmed berths in alternate trains.
- B No-extra charges will be taken from passengers.
- C Wait-listed passengers can avail opportunity of travelling in Rajdhani/Shatabdi/Special trains even when booking made is in other mail/express trains.
- D Vikalp scheme will be initially available for e-tickets only.

Answer: A

Question 44

Who discovered the Cholera causing germ?

- A Filippo Pacini
- B Robert Koch
- C M. Laveran
- D Felix Hoffman

Answer: A

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Question 45

Match the following.

Player

1. Mithali Raj
2. Poonam Rani
3. Lalita Babar

Sport

- a. Hockey
- b. 3000m steeplechases
- c. Cricket

- A 1-c, 2-b, 3-a
- B 1-a, 2-b, 3-c
- C 1-a, 2-c, 3-b
- D 1-c, 2-a, 3-b

Answer: D

Question 46

'Hunar Haat' an exhibition to exhibit and promote the arts and artisans from minority community was launched at which of the following events?

- A Pushkar Fair, 2016
- B IITF, New Delhi, 2016
- C Suraj Kund Craft Mela, 2017
- D Kumbh Mela, 2015

Answer: B

Question 47

Which movie won the award for the best movie at the Oscar Awards 2017?

- A La La Land
- B Arrival
- C Moonlight
- D Manchester by the Sea

Answer: C

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Question 48

Who is the author of the book titled 'Citizen and Society'?

- A Pranab Mukherjee
- B Hamid Ansari
- C Nandan Nilekani
- D Satyajit Ray

Answer: B

Question 49

With which country India has recently signed a MoU for Water Conservation in India?

- A France
- B Germany
- C Israel
- D Bangladesh

Answer: C

Question 50

Which neighbouring country of India is the largest producer of Opium in the World?

- A Pakistan
- B Afghanistan
- C Sri Lanka
- D Maldives

Answer: B

SSC CGL Free Mock Test

English

Instructions

For the following questions answer them individually

Question 51

In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

No sooner did I come out of my home to go to market (a)/ when it started raining heavily (b)/ which drenched me completely. (c)/ No Error (d)

- A 1
- B 2

C 3

D 4

Answer: B

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Question 52

In the following question, some part of the sentence may have errors. Find out which part of the sentence has an error and select the appropriate option. If a sentence is free from error, select 'No Error'.

Unless you don't obey (a)/ your elders you (b)/ will not succeed in your life. (c)/ No Error (d)

A 1

B 2

C 3

D 4

Answer: A

Question 53

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

Fourteen kilometres _____ not a short distance, to reach to my office daily.

A are

B has

C have

D is

Answer: D

Question 54

In the following question, the sentence given with blank to be filled in with an appropriate word. Select the correct alternative out of the four and indicate it by selecting the appropriate option.

Good reading _____ the sense of liberal educated mind.

A beliefs

B leads

C reflects

D starts

Answer: C

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Question 55

In the following question, out of the four alternatives, select the word similar in meaning to the word given.

Frivolous

- A Captious
- B Wise
- C Puerile
- D Spiritual

Answer: C

Question 56

In the following question, out of the four alternatives, select the word similar in meaning to the word given.
Petrify

- A Adorn
- B Calm
- C Curious
- D Harden

Answer: D

Question 57

In the following question, out of the four alternatives, select the word opposite in meaning to the word given.
Gregarious

- A Affable
- B Genial
- C Introvert
- D Urbane

Answer: C

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Question 58

In the following question, out of the four alternatives, select the word opposite in meaning to the word given.
Tremulous

- A Feeble
- B Frugal
- C Stable
- D Vital

Answer: C

Question 59

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase.
The alpha and the omega

- A Happy and sad
- B The beginning and the end
- C The love and the hatred
- D Truth and dare

Answer: B

Question 60

In the following question, out of the four alternatives, select the alternative which best expresses the meaning of the idiom/phrase. **Throw up the sponge**

- A To attack
- B To laugh at someone
- C To surrender
- D To talk loudly

Answer: C

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Question 61

Improve the bracketed part of the sentence.

I had (a few) eggs in the fridge, so we need to go to the market to buy them.

- A a little
- B few
- C little
- D No improvement

Answer: B

Question 62

Improve the bracketed part of the sentence.

My brother is indifferent (about) whatever I say.

- A in
- B of
- C to
- D No improvement

Answer: C

Question 63

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. **A funeral poem**

- A Elegy
- B Pandemonium
- C Parody
- D Sonnet

Answer: A

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Question 64

In the following question, out of the four alternatives, select the alternative which is the best substitute of the phrase. One who walks in sleep

- A Drover
- B Fastidious
- C Numismatist
- D Somnambulist

Answer: D

Question 65

In the following question, four words are given out of which one word is incorrectly spelt. Select the incorrectly spelt word.

- A Gaurantee
- B Itinerary
- C Magnificent
- D Writing

Answer: A

Question 66

In the following question, four words are given out of which one word is incorrectly spelt. Select the incorrectly spelt word.

- A Etiquete
- B Exquisite
- C Restaurant
- D Scavenger

Answer: A

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Question 67

The question below consists of a set of labelled sentences. These sentences, when properly sequenced form a coherent paragraph. Select the most logical order of sentences from among the options.

P-But he did not know how to find one at that hour.

Q-It was his first visit to the city and he didn't know where to go.

R-Mohanlal's train was late and it reached Kolkata a little after midnight.

S-He thought he would go to a choultry where he would not have to pay rent.

A PSQR

B QRSP

C RQSP

D RSQP

Answer: C

Question 68

The question below consists of a set of labelled sentences. These sentences, when properly sequenced form a coherent paragraph. Select the most logical order of sentences from among the options.

P-And slowly, you reach the pinnacle of self-awareness, experiencing a unity with all life.

Q-If you transform your energy positively, it naturally becomes compassion and love.

R-Once you experientially are a part of everything then nobody needs to teach you morality.

S-Then you can do something to improve the situation, but without anger.

A PQRS

B QPRS

C RQPS

D RSPQ

Answer: B

Question 69

In the following question, a sentence has been given in Active/Passive voice. Out of the four alternatives suggested, select the one which best expresses the same sentence in Passive/Active voice.

Ram was singing a beautiful song for his mother.

A A beautiful song was being sung by Ram for his mother.

B A beautiful song was sang by Ram for his mother.

C A beautiful song was sung by Ram for his mother.

D A beautiful song was sung for his mother by Ram.

Answer: A

General Science Notes for SSC CGL

Question 70

In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one which best expresses the same sentence in Indirect/Direct speech.

Priya advised me not to go to school the next day.

- A "Don't go to school next day" Priya said to me.
- B "Don't go to school tomorrow" Priya said to me.
- C Priya said, "Will you not go to school tomorrow?"
- D Priya told me that, "Don't go to school tomorrow."

Answer: B

Instructions

In the following passage, some of the words have been left out. Read the passage carefully and select the correct answer for the given blank out of the four alternatives.

Job performance is ___(1)___ by a number of factors. Motivation alone does not lead to increased performance. Ability and technology moderates the relationship between motivation and performance. The higher the levels of ability and motivation the ___(2)___ the level of performance will be. However, increasing motivation beyond an ___(3)___ level tends to ___(4)___ a dysfunctional result because it is ___(5)___ by an increased level of anxiety.

Question 71

(1)

- A affected
- B effected
- C influenced
- D measured

Answer: A

Question 72

(2)

- A higher
- B larger
- C lower
- D smaller

Answer: A

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Question 73

(3)

- A certain
- B desired
- C increased
- D optimal

Answer: D

Question 74

(4)

- A deduce
- B introduce
- C produce
- D reduce

Answer: C

Question 75

(5)

- A abandoned
- B accompanied
- C affiliated
- D amalgamated

Answer: B

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Mathematics

Instructions

For the following questions answer them individually

Question 76

How many numbers are there from 300 to 650 which are completely divisible by both 5 and 7?

- A 8
- B 9
- C 10
- D 12

Answer: C

Explanation:

the numbers which are divisible by both 5 and 7 means those must be divisible by $5 \times 7 = 35$

35th multiple after 300 = 315 = 35×9

35th multiple before 650 = 630 = 35×18

so total numbers which are divisible by 35 in between 300 & 650 are = $18 - 9 + 1 = 10$.

so the answer is option C.

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Question 77

Raman can do a work in 5 days, Jatin can do the same work in 7 days and Sachin can do the same work in 9 days. If they do the same work together and they are paid Rs 2860, then what is the share (in Rs) of Raman?

- A 1260
- B 700
- C 900
- D 870

Answer: A

Explanation:

Raman can do a work in 5 days

Jatin can do the same work in 7 days

Sachin can do the same work in 9 days

$$\frac{1}{R+J+S} = \frac{1}{5} + \frac{1}{7} + \frac{1}{9}$$

$$\frac{1}{R+J+S} = \frac{63+45+35}{315}$$

$$\frac{1}{R+J+S} = \frac{143}{315}$$

$$R + J + S = \frac{315}{143}$$

All 3 together can complete the work in $\frac{315}{143}$ days

if total money earned = 2860, then

$$\text{Raman's share} = \frac{1}{5} * \frac{315}{143} * 2860 = \frac{63}{143} \times 2860 = 1260$$

so the answer is option A.

Question 78

If the diameter of a sphere is 14 cm, then what is the surface area (in cm^2) of the sphere?

- A 616
- B 308
- C 462
- D 636

Answer: A

Explanation:

Diameter of a sphere is 14 cm = d = 14cm

then radius, r = 7cm

$$\text{surface area of sphere} = 4\pi r^2 = 4 \times \frac{22}{7} \times 7^2 = 616 \text{ cm}^2$$

so the answer is option A.

Question 79

After two successive discounts of 20% and 35%, an article is sold for Rs 50700. What is the marked price (in Rs) of the article?

- A 92500
- B 98500

C 97500

D 94000

E 96000

Answer: C

Explanation:

Let marked price = MP

the article is sold at two successive discounts of 20% and 35%

selling price = 50700

$$\Rightarrow \frac{100-35}{100} \times \frac{100-20}{100} \times MP = 50700$$

$$\Rightarrow \frac{65}{100} \times \frac{80}{100} \times MP = 50700$$

$$MP = 97500$$

so the answer is option C.

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Question 80

Rs 3200 is divided among A, B and C in the ratio of 3 : 5 : 8 respectively. What is the difference (in Rs) between the share of B and C?

A 400

B 600

C 800

D 900

Answer: B

Explanation:

A : B : C = 3 : 5 : 8

$$\text{difference of share of B and C} = \frac{8-5}{3+5+8} \times 3200 = \frac{3}{16} \times 3200 = 600$$

so the answer is option B.

Question 81

The average age of 5 members of a family is 24 years. If the youngest member is 8 years old, then what was the average age (in years) of the family at the time of the birth of the youngest member?

A 16

B 20

C 24

D 32

Answer: B

Explanation:

The average age of 5 members of a family is 24 years

$$\Rightarrow \text{total age of 5 members} = 5 \times 24 = 120$$

age of youngest one = 8 years

before the birth of youngest one means before 8 years,

$$\text{their total age} = 120 - 5 \times 8 = 120 - 40 = 80$$

at that time, there would be 4 persons only.

$$\text{hence, average} = \frac{80}{4} = 20.$$

so the answer is option B.

Question 82

If the price of pen decreases by 20%, then a man can buy 10 more pens for Rs 100. What is the new price (in Rs) of each pen?

A 1

B 2

C 4

D 5

Answer: B

Explanation:

let initial price = x

let he buy y number of pens for 100. $\Rightarrow x \times y = 100$.

If the price of pen decreases by 20%, then a man can buy 10 more pens for Rs 100

$$\Rightarrow \left(\frac{100-20}{100} \times x\right) \times (y + 10) = 100$$

$$\Rightarrow (0.8 \times x) \times (y + 10) = 100$$

$$\Rightarrow (0.8x \times y) + (80 \times x) = 100$$

$$\Rightarrow (80) + (80 \times x) = 100$$

$$\Rightarrow (80 \times x) = 100 - 80 = 20$$

$$\Rightarrow x = \frac{20}{8} = 2.5/-$$

$$\text{new price} = 0.8 \times x = 0.8 \times 2.5 = 2/-$$

so the answer is option B.

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Question 83

After deducting 60% from a certain number and then deducting 15% from the remainder, 1428 is left. What was the initial number?

A 4200

B 3962

C 4150

D 4300

Answer: A

Explanation:

$$\frac{100-15}{100} \times \frac{100-60}{100} \times X = 1428$$

$$\frac{85}{100} \times \frac{40}{100} \times X = 1428$$

$$\Rightarrow X = 4200$$

so the answer is option A.

Question 84

A train travels 40% faster than a car. Both start from point A at the same time and reach point B, 140 km away at the same time. On the way the train takes 25 minutes for stopping at the stations. What is the speed (in km/hr) of the train?

- A 67
- B 134.4
- C 145.9
- D 160
- E 147.4

Answer: B

Explanation:

Let speed of car = x kmph

speed of train = $1.4 \times x$ kmph

distance = 140

$$T_{car} - T_{train} = \frac{25}{60} \text{ hrs}$$

$$\frac{140}{x} - \frac{140}{1.4x} = \frac{5}{12}$$

$$\frac{0.4}{1.4x} = \frac{5}{12 \times 140}$$

$$\Rightarrow 1.4x = 134.4 \text{ kmph.}$$

so the answer is option B.

Question 85

A certain sum of money triples itself in 5 years at simple interest. In how many years it will be five times?

- A 5
- B 8
- C 10
- D 15

Answer: C

Explanation:

let principle = P

simple interest = I

time = T yrs

rate of interest = R.

$$I = \frac{PTR}{100}$$

A certain sum of money triples itself in 5 years at simple interest

$$\Rightarrow I = 2P$$

$$\Rightarrow 2P = \frac{P \cdot 5 \cdot R}{100}$$

$$\Rightarrow R = 40\%$$

In how many years it will be five times

$$\Rightarrow I = 4P$$

$$\Rightarrow 4P = \frac{P \cdot 40 \cdot T}{100}$$

$$T = 10 \text{ yrs}$$

so the answer is option C.

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Question 86

If $x + (1/x) = 2$, then what is the value of $x^{64} + x^{121}$?

- A 0
- B 1
- C 2
- D -2

Answer: C

Explanation:

$$x + (1/x) = 2$$

we can substitute $x = 1$

$$x^{64} + x^{121} = 1^{64} + 1^{121} = 1 + 1 = 2$$

so the answer is option C.

Question 87

If $x = 6 + 2\sqrt{6}$, then what is the value of $\sqrt{x-1} + \frac{1}{\sqrt{x-1}}$?

- A $2\sqrt{3}$
- B $3\sqrt{2}$
- C $2\sqrt{2}$
- D $3\sqrt{3}$

Answer: A

Explanation:

We need to calculate $\sqrt{x-1} + \frac{1}{\sqrt{x-1}}$

$$\text{This equals } \frac{x-1+1}{\sqrt{x-1}} = \frac{x}{\sqrt{x-1}}$$

$$x - 1 = 5 + 2\sqrt{6} = (\sqrt{3} + \sqrt{2})^2$$

$$\text{Therefore, } \sqrt{x-1} = \sqrt{3} + \sqrt{2}$$

Hence, the required expression becomes $\frac{6+2\sqrt{6}}{\sqrt{2}+\sqrt{3}}$

$$\text{This equals } 2 * \frac{3+\sqrt{6}}{\sqrt{2}+\sqrt{3}} = 2\sqrt{3}$$

Question 88

If $a+b+c=27$, then what is the value of $(a-7)^3 + (b-9)^3 + (c-11)^3 - 3(a-7)(b-9)(c-11)$?

- A 0

- B 9
C 27
D 81

Answer: A

Explanation:

$$\text{If } x+y+z = 0, (x)^3 + (y)^3 + (z)^3 - 3(x)(y)(z) = 0$$

$$\text{put } x = a-7, y = b-9, z = c-11,$$

$$\text{then } x+y+z = (a+b+c)-(7+11+9) = 27 - 27 = 0,$$

$$\text{so } (x)^3 + (y)^3 + (z)^3 - 3(x)(y)(z) = 0$$

$$(a-7)^3 + (b-9)^3 + (c-11)^3 - 3(a-7)(b-9)(c-11) = 0$$

so the answer is option A.

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Question 89

If $x = \frac{2\sqrt{15}}{\sqrt{3}+\sqrt{5}}$, then what is the value of $\frac{x+\sqrt{5}}{x-\sqrt{5}} + \frac{x+\sqrt{3}}{x-\sqrt{3}}$

- A $\sqrt{5}$
B $\sqrt{3}$
C $\sqrt{15}$
D 2

Answer: D

Explanation:

$$x = \frac{2\sqrt{3}\sqrt{5}}{\sqrt{3}+\sqrt{5}}$$

$$\frac{x}{\sqrt{5}} = \frac{2\sqrt{3}}{\sqrt{3}+\sqrt{5}}$$

By C-D rule,

$$\frac{x+\sqrt{5}}{x-\sqrt{5}} = \frac{3\sqrt{3}+\sqrt{5}}{\sqrt{3}-\sqrt{5}} \text{ -----(1)}$$

and

$$\frac{x}{\sqrt{3}} = \frac{2\sqrt{5}}{\sqrt{3}+\sqrt{5}}$$

$$\frac{x+\sqrt{3}}{x-\sqrt{3}} = \frac{3\sqrt{5}+\sqrt{3}}{\sqrt{5}-\sqrt{3}} \text{ -----(2)}$$

add (1) & (2)

$$\frac{x+\sqrt{5}}{x-\sqrt{5}} + \frac{x+\sqrt{3}}{x-\sqrt{3}}$$

$$= \frac{3\sqrt{3}+\sqrt{5}}{\sqrt{3}-\sqrt{5}} + \frac{3\sqrt{5}+\sqrt{3}}{\sqrt{5}-\sqrt{3}}$$

$$= \frac{2\sqrt{3}-2\sqrt{5}}{\sqrt{3}-\sqrt{5}}$$

$$= 2$$

so the answer is option D.

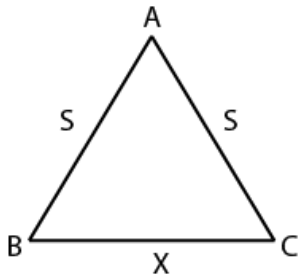
Question 90

The perimeter of an isosceles triangle is 32 cm and each of the equal sides is $\frac{5}{6}$ times of the base. What is the area (in cm^2) of the triangle ?

- A 39
- B 48
- C 57
- D 64

Answer: B

Explanation:



$$\text{Given } S = \frac{5}{6} \times x$$

$$\text{perimeter} = 32$$

$$s + s + x = 32$$

$$2s + x = 32$$

$$2\left(\frac{5}{6}\right)x + x = 32$$

$$x = 12, s = 10.$$

let h be the height of the triangle,

$$h = \sqrt{s^2 - \left(\frac{a}{2}\right)^2} = 8$$

$$\text{area of triangle} = \frac{1}{2} \times bh = \frac{1}{2} \times 12 \times 8 = 48$$

so the answer is option B.

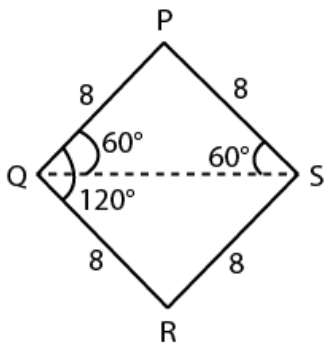
Question 91

If length of each side of a rhombus PQRS is 8 cm and $\angle PQR = 120^\circ$, then what is the length (in cm) of QS?

- A $4\sqrt{5}$
- B 6
- C 8
- D 12

Answer: C

Explanation:



from the diagram,

$$\angle QPS = 60^\circ$$

$\triangle PQS$ is equilateral triangle.

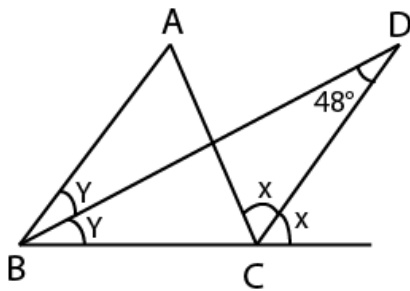
so $QS = 8$.

so the answer is option C.

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Question 92

In the given figure, ABC is a triangle. The bisectors of internal $\angle B$ and external $\angle C$ intersect at D . If $\angle BDC = 48^\circ$, then what is the value (in degrees) of $\angle A$?



- A 48
- B 96
- C 100
- D 114

Answer: B

Explanation:

Let $\angle A = \theta$

Using exterior angle property,

$$\Rightarrow \theta + 2y = 2x$$

$$\Rightarrow 2(x - y) = \theta$$

$$\Rightarrow x - y = \frac{\theta}{2} \text{ -----(i)}$$

In $\triangle ABC$,

$$\Rightarrow \angle A + \angle B + \angle C = 180$$

$$\Rightarrow \theta + 2y + \angle ACB = 180^\circ$$

$$\Rightarrow \angle ACB = 180^\circ - 2y - \theta$$

$$\text{Thus, } \angle DCB = \angle ACB + \angle ACD = 180^\circ - 2y - \theta + x \text{ -----(ii)}$$

Now, in $\triangle BCD$,

$$\Rightarrow \angle DBC + \angle DCB + \angle CDB = 180$$

$$\Rightarrow y + (180^\circ - 2y - \theta + x) + 48^\circ = 180^\circ$$

$$\Rightarrow x - y - \theta = -48^\circ$$

Substituting value from equation (i), we get :

$$\Rightarrow \frac{\theta}{2} - \theta = -48^\circ$$

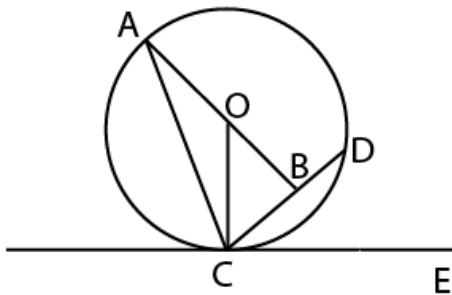
$$\Rightarrow \frac{\theta}{2} = 48^\circ$$

$$\Rightarrow \theta = 48 \times 2 = 96^\circ$$

\Rightarrow Ans - (B)

Question 93

In the given figure, O is the centre of the circle and $\angle DCE = 45^\circ$. If $CD = 10\sqrt{2}$ cm, then what is the length (in cm) of AC . $CB = BD$



A 14

B 15.5

C 18.5

D 20

Answer: C

Explanation:

Given : $CD = 10\sqrt{2}$ cm and $BC = BD = 5\sqrt{2}$ cm

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

Also, $\angle DCE = 45^\circ$, $\Rightarrow \angle OCB = 45^\circ$, $\Rightarrow OB = BC$ -----(i)

Now, in $\triangle OBC$,

$$\Rightarrow (OC)^2 = (OB)^2 + (BC)^2$$

$$\Rightarrow (OC)^2 = (5\sqrt{2})^2 + (5\sqrt{2})^2$$

$$\Rightarrow (OC)^2 = 50 + 50 = 100$$

$$\Rightarrow OC = \sqrt{100} = 10 \text{ cm}$$

Similarly, in $\triangle ABC$,

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

$$\Rightarrow (AC)^2 = (10 + 5\sqrt{2})^2 + (5\sqrt{2})^2$$

$$\Rightarrow (AC)^2 = 100 + 50 + 100\sqrt{2} + 50$$

$$\Rightarrow (AC)^2 = 100(2 + \sqrt{2}) = 341.42$$

$$\Rightarrow AC = \sqrt{341.42} = 18.47 \approx 18.5 \text{ cm}$$

\Rightarrow Ans - (C)

Question 94

What is the simplified value of $\frac{\sin 2A}{1 + \cos 2A}$?

- A $\tan A$
- B $\cot A$
- C $\sin A$
- D $\cos A$

Answer: A

Explanation:

$$\frac{\sin 2A}{1 + \cos 2A} = \frac{2 \sin A \cos A}{2 \cos^2 A} = \tan A$$

so the answer is option A.

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Question 95

What is the simplified value of $\frac{\sec A}{(\cot A + \tan A)^2}$?

- A $1 - \cos^2 A$
- B $2 \sin^2 A$
- C $\sec^2 A$
- D $\operatorname{cosec}^2 A$
- E $\cot^2 A$

Answer: A

Explanation:

$$\frac{\sec A}{(\cot A + \tan A)^2}$$

$$= \frac{1 \sec A}{\tan A + \tan A}$$

$$= \left(\frac{\sec A}{\tan A} \right)^2$$

$$= (\sin A)^2$$

$$= 1 - \cos^2 A$$

so the answer is option A.

Question 96

What is the simplified value of $1 + \tan A \tan (A/2)$?

- A $\sin A/2$
- B $\cos A$
- C $\sec A$
- D $\sin A$

Answer: C

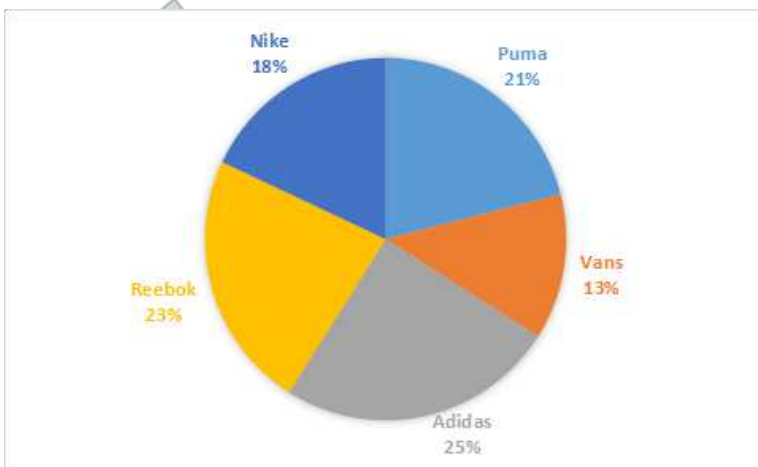
Explanation:

$$\begin{aligned} & 1 + \tan A \tan(A/2) \\ & \quad 2 \tan(A/2) \\ = & 1 + 1 - \tan^2(A/2) \times \tan(A/2) \\ & 1 - \tan^2(A/2) + 2 \tan^2(A/2) \\ = & 1 - \tan^2(A/2) \\ & 1 + \tan^2(A/2) \\ = & 1 - \tan^2(A/2) \end{aligned}$$

$= \sec^2(A/2) = \sec A$
so the answer is option C.

Instructions

The pie chart given below shows the number of shoes of 5 different brands in a multi brand store. There are total 1200 shoes.



Question 97

How many shoes are there of Reebok brand?

- A 230
- B 276
- C 286
- D 216

Answer: B

Explanation:

$$\text{Reebok brand shoes} = \frac{23}{100} \times 1200 = 276$$

so the answer is option B.

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Question 98

What is the difference in number of shoes of Puma and Vans?

- A 96

- B 156
- C 84
- D 112

Answer: A

Explanation:

$$\text{Difference in number of shoes of puma and vans} = \frac{21-13}{100} \times 1200 = 96$$

so the answer is option A.

Question 99

The difference between the number of shoes of Reebok and Nike is same as the difference between which of the following two brands?

- A Puma and Adidas
- B Reebok and Adidas
- C Vans and Nike
- D Nike and Adidas

Answer: C

Explanation:

$$\text{The difference between the number of shoes of Reebok and Nike} = 23\% - 18\% = 5\%$$

by verification,

$$\text{The difference between the number of shoes of Puma and Adidas} = 25\% - 21\% = 4\%$$

$$\text{The difference between the number of shoes of Reebok and Adidas} = 25\% - 23\% = 2\%$$

$$\text{The difference between the number of shoes of Vans and Nike} = 18\% - 13\% = 5\%$$

$$\text{The difference between the number of shoes of Nike and Adidas} = 25\% - 18\% = 7\%$$

so the answer is option C.

Question 100

Puma shoes are how much percent more than the Nike Shoes?

- A 14.28
- B 16.66
- C 25
- D 21.33

Answer: B

Explanation:

$$\text{Puma brand shoes} = \frac{21}{100} \times 1200 = 252$$

$$\text{Nike brand shoes} = \frac{18}{100} \times 1200 = 216$$

$$= \frac{252 - 216}{216} \times 100 = \frac{36}{216} \times 100 = 16.66\%$$

so the answer is option B.

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