

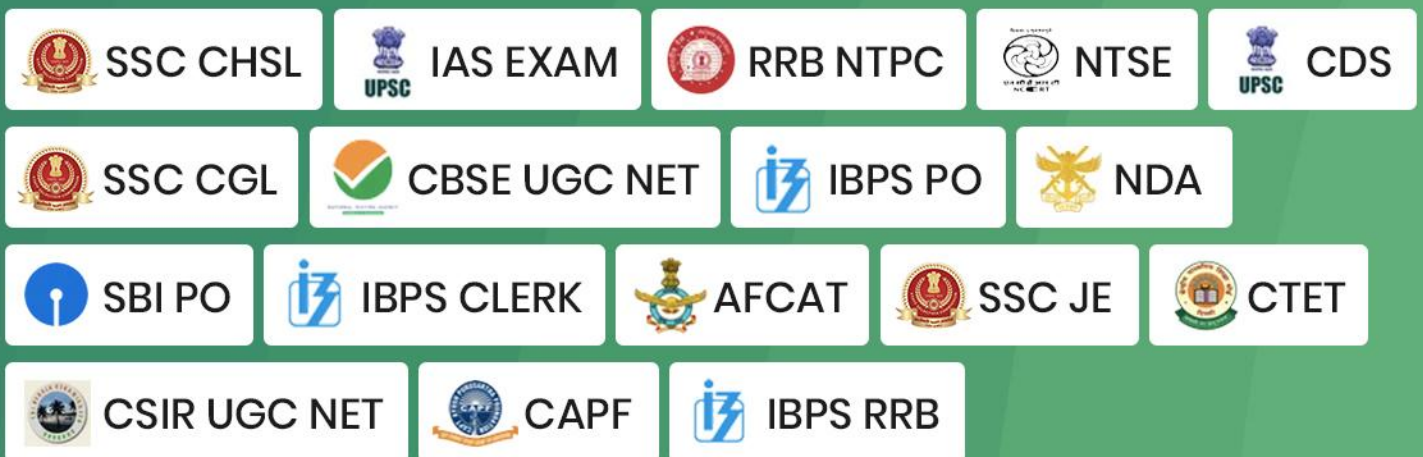


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SSC CPO Exam

Previous Year Question Paper with Answer

Simplifying
Government Exams



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Reasoning

Instructions

For the following questions answer them individually

Question 1

Three of the following four word-pairs are alike in a certain way and one is different. Find the odd one out.

- A Carpenter : Saw
- B Warrior : Sword
- C Author : Pen
- D Mason : Knife

Answer: D

Explanation:

A carpenter uses saw as a tool, Similarly , Author uses Pen for writing and Warrior uses Sword for war.

But A Mason is a builder who uses stones for building.

So,option D is right choice.

Question 2

'Cardiology' is related to 'Heart' in the same way as 'Pathology' is related to '.....'.

- A Diseases
- B Man
- C Body
- D Soil

Answer: A

Explanation:

Pathology is the study of cause and effect of disease.

Option A is right.

Question 3

In a code language, 54831 is coded as 63922. What will be the code for 86274 in that language?

- A 75365
- B 77185
- C 95365
- D 95185

Answer: C

Explanation:

In 54831 ,each digit is added with (+1,-1,+1,-1,+1,-1) pattern.

$5 + 1 = 6$ $4 - 1 = 3$ $8 + 1 = 9$ $3 - 1 = 2$ $1 + 1 = 2$.

Similarly ,resultant answer is 9

Option C is correct.

Question 4

Three of the following four options are similar in a certain way and one is different. Find the one that is different.

A 6 - 36 - 216

B 10 - 100 - 1000

C 3 - 6 - 27

D 5 - 25 - 125

Answer: C

Explanation:

$6 - 36 - 216 = 6 \times 36 = 216$ & $10 - 100 - 1000 = 10 \times 100 = 1000$ & $5 - 25 - 125 = 5 \times 25 = 125$.

But 3-6-27 is not in the same pattern.

So, option C is correct answer.

Question 5

Select the option that is related to the third term in the same way as the second term is related to the first term.

RY : QZ :: HK :

A GJ

B GL

C IL

D IM

Answer: B

Explanation:

R $\xrightarrow{+7}$ Y : Q $\xrightarrow{+9}$ Z

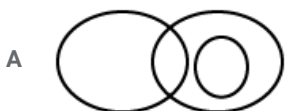
H $\xrightarrow{+3}$ K : G $\xrightarrow{+5}$ L

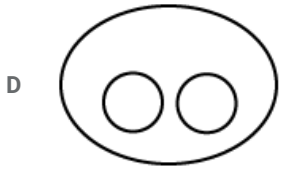
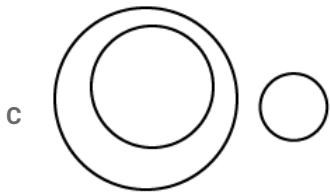
So, option B is correct.

Question 6

Select the Venn diagram that best illustrates the relationship between the following three classes.

Hospital, Doctor, Patient





Answer: D

Explanation:

Both Doctor and patient sustain in Hospital and Doctor serves Patient.

So,option D is correct choice.

Question 7

Three of the following four numbers are alike in a certain way and one is different. Identify the different one.

A 215

B 169

C 144

D 196

Answer: A

Explanation:

$169 = 13^2$, $144 = 12^2$, $196 = 14^2$.

But 215 is not a perfect square.

So,option A is correct choice.

Question 8

A Nurse moved 90 m in the East in a hospital to look for her duty Doctor, then she turned right and went 20 m. After this she turned right and after going 30 m she reached I.C.U. but the Doctor was not there. From there she went 100 m to her north and met her doctor. What distance did she moved to meet her duty doctor from the starting point.

A 100 m

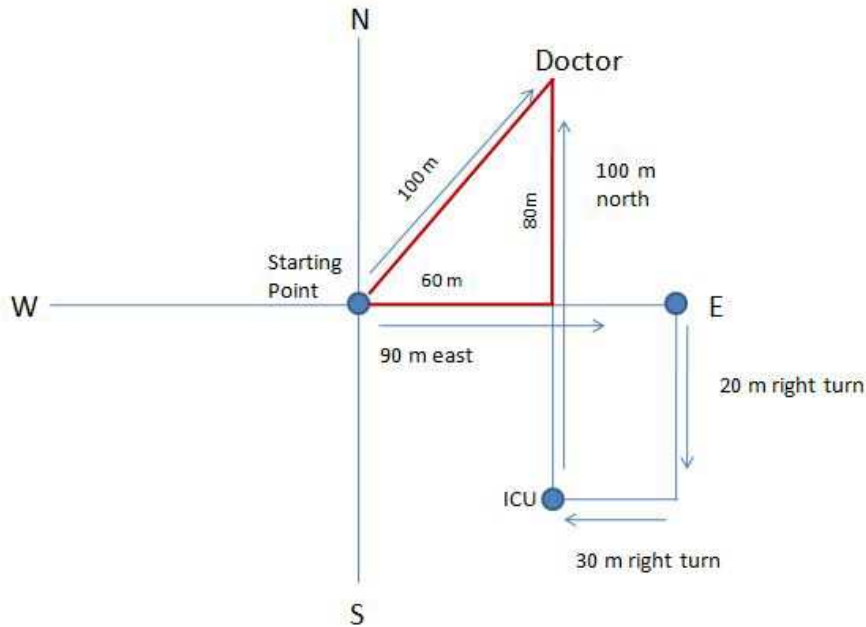
B 120 m

C 80 m

D 140 m

Answer: A

Explanation:



$$60^2 + 80^2 = 100^2 = 100.$$

So, option A is correct.

Question 9

Three of the following four number-pairs are alike in a certain way and one is different. Identify the different one.

- A 5 : 29
- B 8 : 62
- C 3 : 7
- D 6 : 34

Answer: A

Explanation:

in 8:62 implies that $62 = 8^2 - 2$.

Similarly,

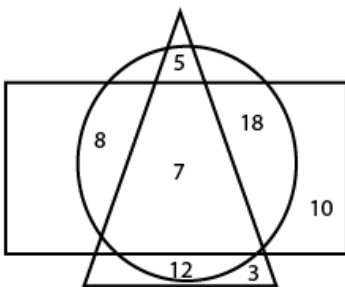
3:7 implies that $7 = 3^2 - 2$, 6:34 implies that $34 = 6^2 - 2$.

But 5:29 implies that $29 = 5^2 + 4$.

So, option A is correct.

Question 10

In the following diagram, the rectangle represents doctors, the triangle represents players and the circle represents philosophers. The numbers in different segments show the number of persons.



According to the given diagram, How many players are philosophers but not Doctors?

- A 17
- B 7
- C 5
- D 12

Answer: A

Explanation:

number of players who are philosophers = $5 + 7 + 12 = 24$.

But 7 doctors are there.

So, number of players are philosophers who are not doctor is $= 24 - 7 = 17$.

Option A is correct.

Question 11

Which number will come next in the following series?

1, 3, 7, 15, 31, 63,

- A 139
- B 127
- C 125
- D 126

Answer: B

Explanation:

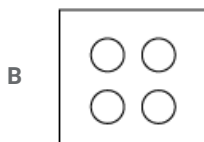
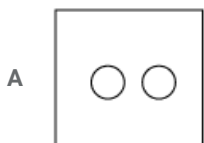
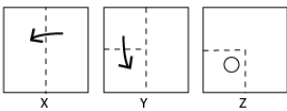
it follows the series of $2^n - 1$, where $n = 1, 2, 3, 4, \dots$

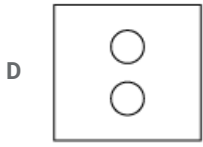
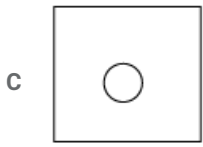
So, next term will be $= 2^7 - 1 = 127$.

Option B is correct.

Question 12

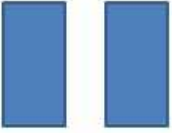
Given is a set of three figures, X, Y and Z, showing the folding sequence of a piece of paper. Fig Z shows the manner in which the folded paper has been cut. Study these figures carefully and select the option that would most closely resemble this piece of paper when unfolded.



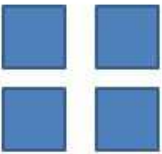


Answer: B

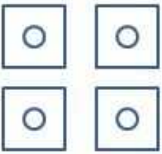
Explanation:



After first fold you will get two rectangle shape on the paper



After second fold you will get four square shape on the paper

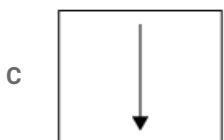
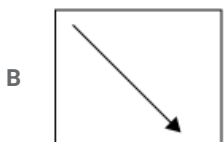
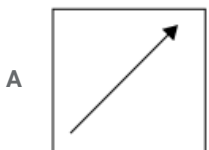


After one last cut on the paper will give you four round cut on the each of the four squared paper

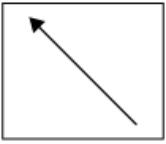
So, option B is correct.

Question 13

Select the correct mirror image of the given figure when the mirror is placed at the right side.



D



Answer: D

Explanation:

If we put an image on right side of the mirror ,it will show the symmetric image on the mirror.

So, option D is correct choice.

Question 14

Two statements are given, followed by four conclusions I, II, III and IV. Assuming these statements to be true, even if they seem to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

Some boxes are dolls.

All dolls are pens.

Conclusions:

I. Some boxes are pens.

II. Some pens are boxes.

III. Some pens are dolls.

IV. All pens are dolls.

A Only conclusions I, II and IV follow.

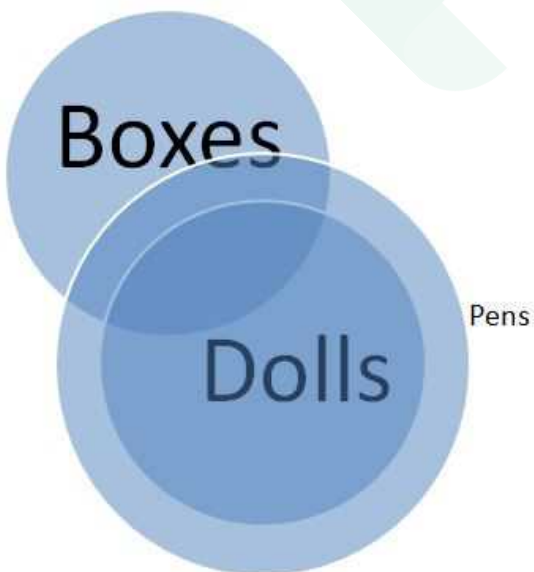
B All the conclusions follow.

C Only conclusions I, II and III follow.

D Only conclusions II, III and IV follow.

Answer: C

Explanation:



So , conclusion I, II and III follows. Option C is correct.

Question 15

Select the option that gives the correct explanation for the following group of words.

Bridge, Link, Chain

A They join two parts.

- B They are suits of cards.
- C They are types of medals.
- D They are jewels.

Answer: A

Explanation:

Clearly option A is legitimate answer.

Question 16

Identify the number that does NOT belong in the given series.

1, 8, 27, 64, 125, 216, 344, 512, 729

- A 512
- B 729
- C 64
- D 344

Answer: D

Explanation:

Each number in the given series is a perfect cube rather than 344.

$$344 = 2^3 \times 43.$$

So, option D is correct.

Question 17

Select the correct alternative to indicate the arrangement of the following words in a logical and meaningful order.

- 1) Alarm Set
- 2) Office
- 3) Car
- 4) Wake up
- 5) Alarm Rang
- 6) Get Ready

- A 1, 5, 4, 3, 6, 2
- B 1, 2, 3, 4, 5, 6
- C 1, 4, 5, 6, 3, 2
- D 1, 5, 4, 6, 3, 2

Answer: D

Explanation:



Option D is correct.

Question 18

Choose the option which has the relation as the words given below :
boy : girl

- A horse - roe
- B cat - Kitten
- C cock - hen
- D donkey - bray

Answer: C

Explanation:

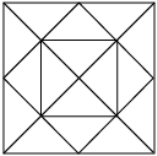
"Boy : Girl" shows the relation of opposite sex.

So, "Cock-Hen" is the only valid relation in the above question.

Option C is correct.

Question 19

Find the number of squares in the following figure.



- A 6
- B 4
- C 9
- D 7

Answer: D

Explanation:

1 large square, 1 medium large square, 4 small square and 1 medium square.

Total number of square 7.

Option D is correct.

Question 20

Which number will replace the question mark (?) in the following series?

2, 5, 10, 17, 26, 37, ?, 65, 82, 101

- A 48
- B 42
- C 50
- D 49

Answer: C

Explanation:

Add $(2n+1)$ where, $n = 1, 2, 3, 4, \dots$ to number next to each other.

So, 7th term of the series will be, $37 + (2 \times 6 + 1) = 50$.

So, option C is correct.

Question 21

If 'A' denotes ' \div ', 'B' denotes ' \times ', 'C' denotes '+' and 'D' denotes '-', then what will be the value of the following expression?

12 B 12 A 4 C 5 D 1

A 39

B 50

C 40

D 59

Answer: C

Explanation:

Applying BODMAS rule,

$$12 \times 12 \div 4 + 5 - 1$$

$$= 12 \times 3 + 5 - 1$$

$$= 36 + 5 - 1$$

$$= 41 - 1$$

$$= 40.$$

Option C is correct.

Question 22

Three of the following four letter-clusters are alike in a certain way and one is different. Find the odd one out.

A UVwXXYY

B BCdEFFF

C IJkLLMM

D PQRsSTT

Answer: B

Explanation:

BCdEFFF is not belong to the pattern. It should be "BCdEEFF".

So, option B is correct.

Question 23

Select the option that is related to the third number in the same way as the second number is related to the first number.

25 : 15625 :: 30 :

A 2700

B 27000

C 900

D 2500

Answer: B

Explanation:

$$25^3 = 15625. \text{ So, } 30^3 = 27000.$$

Option B is correct.

Question 24

Two statements are given, followed by two conclusions I and II. Assuming these statements to be true, even if they seem to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:

All plants are flowers.

No flower is blue.

Conclusions:

I. Some plants are blue.

II. Those plants that are not flowers are blue.

A Only conclusion II follows.

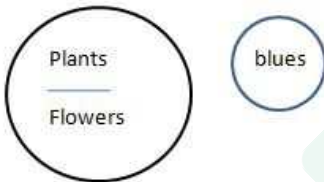
B Only conclusion I follows.

C Neither conclusion I nor II follows.

D Both conclusions I and II follow.

Answer: C

Explanation:



So, no plants are blues as well as all plants are flowers and these are not blues.
So, option C is correct.

Question 25

Three of the following four words are alike in a certain way and one is different. Find the odd one out.

A Cairo

B Paris

C Ottawa

D Kyat

Answer: D

Explanation:

Cairo, Paris and Ottawa are capitals of Egypt, France and Canada.

But Kyat is monetary unit of Burma.

So, option D is correct.

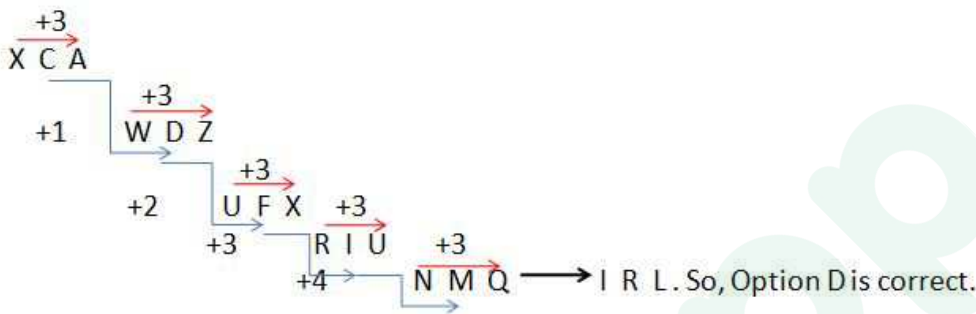
Question 26

Which letter-cluster will replace the question mark (?) in the following series?
XCA, WDZ, UFX, RIU, NMQ, ?

- A IKJ
- B JKO
- C JFU
- D IRL

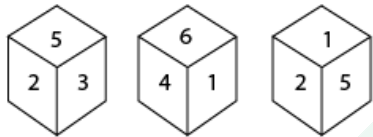
Answer: D

Explanation:



Question 27

Three different positions of the same dice are shown below. Which number is on the face opposite the face showing 4?



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

Answer: B

Explanation:

From figure 1 and figure 3, we can say that 3 and 1 is conjugate to 2 and 5.

And both the number 3 is on the down side conjugate to 2 and 5 & 1 is on the upper side conjugate to 2 and 5.

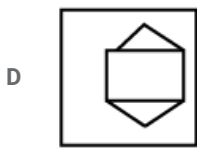
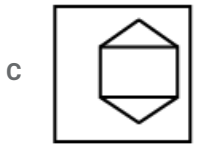
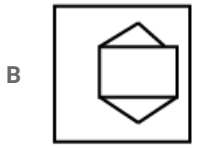
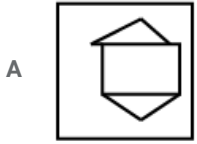
Now, figure 2 clearly says that number 4 is on the right(down)side of number 6 and also 4 is on opposite side of 5.

So, option B is correct choice.

Question 28

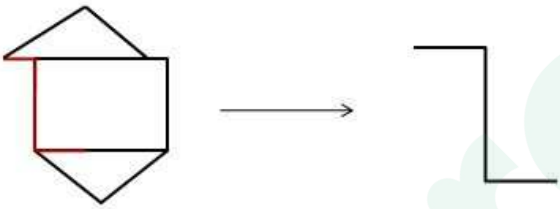
Select the option in which the given figure is embedded.





Answer: A

Explanation:



If you extract the deep red line from the shape, you will get the answer. So, option A is correct.

Question 29

Select the option in which the words share the same relationship as that shared by the given set of words (in the same order).

Hand : Finger : Ring

A Face : Nose : Nose pin

B Anklet : Foot : Ankle

C Earring : Ear : Jewel

D Cap : Head : Hair

Answer: A

Explanation:

Rings are used to wear in fingers, which belongs to hands.

Similarly, a nose pin is used to wear in nose, which lies on face.

Other options are not relatively connected to each other by the same logic.

So, option A is correct choice.

Question 30

In the following number series, two numbers have been put within brackets. Select the most appropriate option for these numbers in relation to their inclusion in the series.

2, 4, 6, 8, 10, (12), 14, 16, (18), 20

- A The first bracketed number is correct and the second is incorrect.
- B The first bracketed number is incorrect and the second is correct.
- C Both the bracketed numbers are incorrect.
- D Both the bracketed numbers are correct.

Answer: D

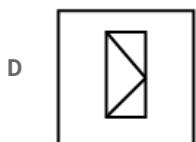
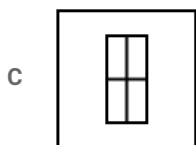
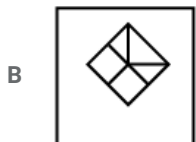
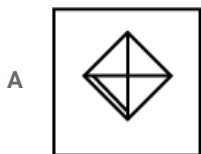
Explanation:

It is an A.P Series with a common difference of 2. So, both the numbers in bracket;(10) &(12), are correct.

Hence, option D is correct choice.

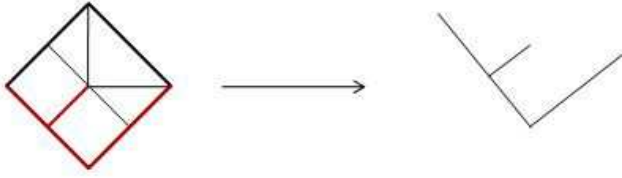
Question 31

Select the option in which the given figure is embedded. (Rotation is not allowed)



Answer: B

Explanation:



If you extract the deep red line from the shape on left side, you will get above figure. So, option B is correct answer.

Question 32

In the following number series, two numbers have been put within brackets. Select the most appropriate option for these numbers in relation to their inclusion in the series.

1, 9, 25, 49, (81), 121, 169, (215), 289

- A Both the bracketed numbers are incorrect.
- B The first bracketed number is incorrect and the second is correct.
- C The first bracketed number is correct and the second is incorrect.
- D Both the bracketed numbers are correct.

Answer: C

Explanation:

The series is of squares of odd numbers. Out of the bracketed numbers 81 and 215, 81 is correct and 215 is incorrect.

$$9^2 = 81$$

$$15^2 = 225$$

Option C is correct.

Question 33

Three of the following four letter-clusters are alike in a certain way and one is different. Find the odd one out.

- A FEDC
- B YXVW
- C LKIJ
- D NMKL

Answer: A

Explanation:

The arrangement of the letters are done in the alphabetical order in the following manner-

3rd letter - 4th letter - 2nd letter and 1st letter.

Option A violates this arrangement so is the odd one out.

Option A is correct.

Question 34

Select the option that is related to the third number in the same way as the second number is related to the first number.

13 : 84.5 :: 20 :

- A 120
- B 150
- C 100
- D 200

Answer: D

Explanation:

$$13 : \frac{13^2}{2} = 84.5$$

$$20 : \frac{20^2}{2} = 200$$

Option D is correct.

Question 35

If TEMPLE is coded as ELPMET, then how will CHURCH be coded as?

- A HCURCH
- B HCRUHC
- C HCRUCH
- D HCURHC

Answer: B

Explanation:

The alphabets in TEMPLE are coded in opposite i.e ELPMET

Therefore CHURCH is coded as HCRUHC.

Option B is correct

Question 36

Three of the following four number-pairs are alike in a certain way and one is different. Identify the different one.

- A 64 : 6
- B 7 : 49
- C 10 : 100
- D 4 : 16

Answer: A

Explanation:

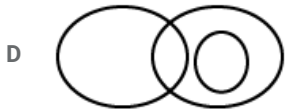
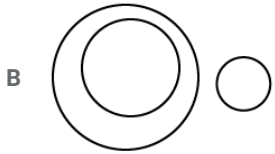
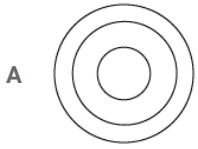
The second number is the square of the first number, for ex $4^2 = 16$

Option A violates that.

Option A is correct

Question 37

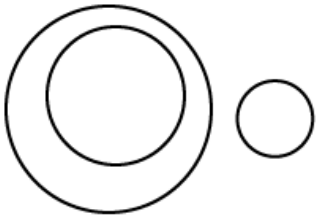
Select the Venn diagram that best illustrates the relationship between the following three classes.
Stationery, Pencil, Apple



Answer: B

Explanation:

Pencil is a stationery item and apple is not. Therefore the following diagram explains it.



Option B is correct.

Question 38

Which of the following interchanges of signs and numbers would make the given equation correct?

$$18 - 3 \div 6 + 24 \times 12 = 48$$

- A \times and $-$, 3 and 6
- B \div and $-$, 12 and 6
- C \times and $+$, 3 and 6
- D \div and \times , 3 and 12

Answer: A

Explanation:

Using Option A, we put them in the equation $18 - 3 \div 6 + 24 \times 12 = 48$,

$$18 \times 6 \div 3 + 24 - 12 = 48$$

$$18 \times 2 + 24 - 12 = 48$$

$$36 + 24 - 12 = 48$$

$$60 - 12 = 48$$

$$48 = 48$$

Hence LHS = RHS

So option A satisfies the equation.

Option A is correct.

Question 39

If 'ARUN' is coded as 54, then how will 'VARUN' be coded as?

A 76

B 78

C 67

D 87

Answer: A

Explanation:

We add the corresponding numerical values of the alphabets as per the alphabetical series.

A = 1, R = 18, U=21, N = 14, V=22

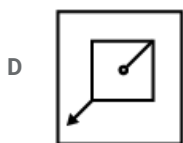
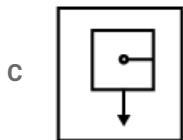
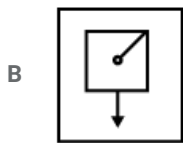
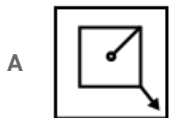
ARUN = 1+18+21+14 = 54

VARUN = 22+1+18+21+14 = 76

Option A is correct.

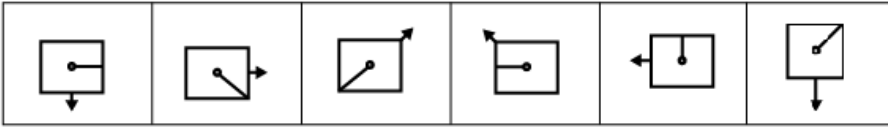
Question 40

Select the figure that will come next in the following series.



Answer: B

Explanation:



Option B is correct.

Question 41

In a certain code language, 'mee muk pic' means 'roses are yellow', 'nil dic' means 'white flowers' and 'pic muk dic' means 'flowers are yellow'. What is the code for 'white' in that language?

- A muk
- B nil
- C dic
- D pic

Answer: B

Explanation:

'mee muk pic' means 'roses are yellow',(1)

'nil dic' means 'white flowers'(2)

'pic muk dic' means 'flowers are yellow'(3)

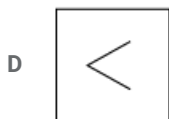
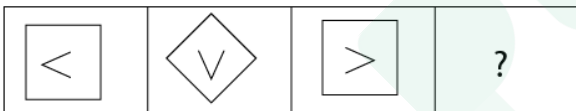
If we look at (2) and (3) we have, only flowers as common. So the code for flowers will be 'dic'

So, from (2) we will now get the code for white as 'nil'

Hence, Option B is correct.

Question 42

Select the option that will come next in the given series.



Answer: A

Explanation:

The image is getting rotated by 90 degrees in counterclockwise direction.

Option A is correct.

Question 43

Select the option that is related to the third term in the same way as the second term is related to the first term.

Apple : Fruit :: Spinach :

- A Food
- B Flower
- C Root
- D Vegetable

Answer: D

Explanation:

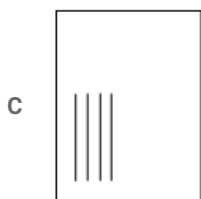
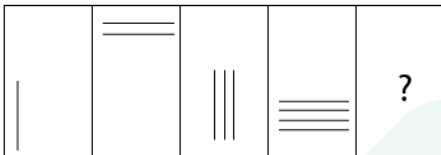
Apple is a fruit and Spinach is a vegetable.

Apple : Fruit :: Spinach : Vegetable

Option D is correct.

Question 44

Select the figure that will come next in the following series.

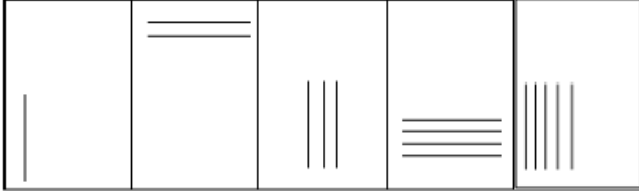




Answer: A

Explanation:

The image is getting rotated by 90 degrees and also 1 parallel line is being added.



Option A is correct.

Question 45

Select the option that is related to the third number in the same way as the second number is related to the first number.

4 : 20 :: 8 :

A 64

B 40

C 56

D 32

Answer: B

Explanation:

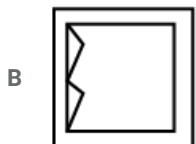
$$4 \times 5 = 20 \text{ and } 8 \times 5 = 40$$

$$4 : 20 :: 8 : 40$$

Option B is correct.

Question 46

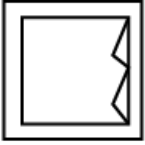
Select the correct mirror image of the given figure when the mirror is placed on the right of the figure .



C

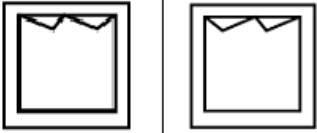


D



Answer: C

Explanation:



When we look at options other than C, we can observe that the image is either on the sides or upside down which is not possible.

As the mirror is placed at the right end of the image, so we will get a mirrored image similar to Option C.

Option C is correct.

Question 47

Which of the following two signs need to be interchanged to make the given equation correct?

$$6 \div 5 - 5 \times 5 + 6 = 35$$

A + and -

B + and \div

C \times and -

D \div and \times

Answer: D

Explanation:

Using option D we get,

$$6 \times 5 - 5 \div 5 + 6 = 35$$

$$6 \times 5 - 1 + 6 = 35$$

$$30 - 1 + 6 = 35$$

$$36 - 1 = 35$$

Option D is correct.

Question 48

Rama walks from his university campus 4 km towards north and then turns to the right to reach his department. After walking 2.5 km from the department he turns to the left and walks 4 km and reached Conference hall. Now in which direction is he from the starting place?

A South-West

B North-East

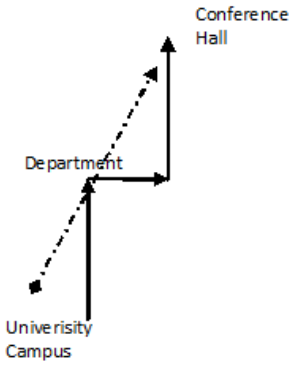
C South

D West

Answer: B

Explanation:

Rama walks from his university campus 4 km towards north and then turns to the right to reach his department. After walking 2.5 km from the department he turns to the left and walks 4 km and reached Conference hall.



So he is in the north east direction from the starting place. (The dashed line shows the direction)

Option B is correct.

Question 49

Which letter will come next in the following series?

Z, U, Q, N, L,

A M

B G

C H

D K

Answer: D

Explanation:

The alphabets are in reverse alphabetical order in the following pattern :

$Z \rightarrow (-5)U \rightarrow (-4)Q \rightarrow (-3)N \rightarrow (-2)L \rightarrow (-1)K$

Option D is correct.

Question 50

Select the correct alternative to indicate the arrangement of the following words in a logical and meaningful order.

1. Gateway of India
2. World
3. Mumbai
4. India
5. Maharashtra

A 4, 2, 5, 1, 3

B 2, 4, 5, 1, 3

C 2, 4, 5, 3, 1

D 4, 2, 5, 3, 1

Answer: C

Explanation:

The chronological order for the following is as follows : (as per geography)

2. World > 4. India > 5. Maharashtra > 3. Mumbai > 1. Gateway of India

Option C is correct.

General knowledge

Instructions

For the following questions answer them individually

Question 51

Citrullus lanatus is the botanical name for

A Apple

B Watermelon

C Banana

D Orange

Answer: B

Question 52

..... founded the 'Bal Charkha Sangh', where children were taught to spin & weave.

A Vinoba Bhave

B Sarojini Naidu

C Indira Gandhi

D Mahatma Gandhi

Answer: C

Question 53

The 11th President of India, was also known as the 'Missile Man'.

A K RNarayanan

B Zakir Hussein

C APJ Abdul Kalam

D Fakhruddin Ali Ahmed

Answer: C

Question 54

The Hindi film 'Kai Po Che' is based on the book titled by Chetan Bhagat.

- A Two States
- B One Night At The Call Centre
- C Three Mistakes Of My Life
- D Five Point Someone

Answer: C

Question 55

Who was the Chairperson of the NITI Aayog as of January 2019?

- A Narendra Modi
- B Sushma Swaraj
- C Amit Shah
- D Ram Nath Kovind

Answer: A

Question 56

Who is the founder of the biotech Indian company called 'Biocon'?

- A Ratan Tata
- B Indu Jain
- C Kiran Majumdar Shaw
- D Mukesh Ambani

Answer: C

Question 57

The fear of foreigners is called:

- A Toxiphobia
- B Xenophobia
- C Sitophobia
- D Theophobia

Answer: B

Question 58

Malus pumila is the botanical name of the tree.

- A Orange
- B Water melon
- C Banana
- D Apple

Answer: D

Question 59

The Panchayat Raj System was first adopted by the state of

- A West Bengal
- B Tamil Nadu
- C Andhra Pradesh
- D Rajasthan

Answer: D

Question 60

The Purna Kumbh Mela takes place every years at one of the four places by rotation, Prayag, Haridwar, Ujjain and Nashik.

- A six
- B two
- C twelve
- D three

Answer: C

Question 61

The festival of _____ is also known as Phagawa.

- A Diwali
- B Holi
- C Sakranti
- D Ganesh Chaturthi

Answer: B

Question 62

Which of the following flowers is botanically known as Narcissus?

- A Carnation
- B Rose
- C Daffodil
- D Lily

Answer: C

Question 63

Pung Cholam is the folk dance of which state ?

- A Madhya Pradesh
- B Manipur
- C Kerala
- D Karnataka

Answer: B

Question 64

Which of the following is the unit of Magnetic field strength?

- A Ohm
- B Gauss
- C Tesla
- D Weber

Answer: C

Question 65

Padma Vibhushan is the civilian award of India.

- A highest
- B second highest
- C third highest
- D fourth highest

Answer: B

Question 66

ONGC discovered the country's first shale gas reserve at:

- A Chandikhol
- B Durgapur

C Jamnagar

D Padur

Answer: B

Question 67

..... was born to the Chauhan King Someshvara and his queen Karpuradevi in 1166 CE.

A Prithviraj Chauhan

B Maharana Pratap

C Maharaja Suraj Mal

D Maharaja Man Singh

Answer: A

Question 68

According to the Vedic principles, which amongst the following is incorrect ?

A Vaishyas or the common people were born from man's legs

B Kshatriyas or the warrior-kings were born from the man's arms

C Shudra or the labourer and servant were born from man's feet

D Brahmins or the learned ones were born from man's ears

Answer: D

Question 69

Which of the following flowers is botanically known as Dianthus?

A Rose

B Lily

C Daffodil

D Carnation

Answer: D

Question 70

Gir National Park is known for its

A Red silk cotton

B Orangutan

C Cherry blossom

D Asiatic Lions

Answer: D

Question 71

..... was a professor of political science and economics at the University of Taxila.

A Kautilya

B Bindusara

C Samudragupta

D Ajatshatm

Answer: A

Question 72

Nyctophobia is the fear of:

A Birds

B Darkness

C Light

D Animals

Answer: B

Question 73

..... is a textile art from Gujarat / Rajasthan.

A Bandhani

B Paithani

C Chanderi

D Ikat

Answer: A

Question 74

The festival of is dedicated to Goddess Durga and her nine avatars.

A Sankranti

B Navratri

C Diwali

D Holi

Answer: B

Question 75

In the body, excess of _____ is the reason for arthritis.

- A Lactic Acid
- B Acetic Acid
- C Nitric Acid
- D Uric Acid

Answer: D

Question 76

Which of the following was NOT a part of the 'Navratna' at Vikramaditya's court?

- A Kshapanaka
- B Kalidasa
- C Vararuchi
- D Surdas

Answer: D

Question 77

..... is situated at the confluence of Alaknanda and Mandakini rivers.

- A Vishnuprayag
- B Karnaprayag
- C Nandaprayag
- D Rudraprayag

Answer: D

Question 78

Which of the following clubs, founded in 1889, is the oldest Indian club still in operation as on January 2019?

- A Indian Bank Recreational Club
- B Calcutta Cricket & Football Club
- C Mohun Bagan Athletic Club
- D North Imphal Sporting Association

Answer: C

Question 79

The Indian Olympic Association has expressed interest to host the summer Olympics.

- A 2020
- B 2024
- C 2032
- D 2028

Answer: C

Question 80

..... city tops the list of top 10 richest cities in India, with 8 GDP of \$ 209 billion.

- A New Delhi
- B Kolkata
- C Bengaluru
- D Mumbai

Answer: D

Question 81

The ancient name of the river Tungabhadra was:

- A Vitasta
- B Kubha
- C Pampa
- D Sindhu

Answer: C

Question 82

Prince Khurrarn grew up to be known as:

- A Jahangir
- B Akbar
- C Humayun
- D Shah Jahan

Answer: D

Question 83

Arundhati Roy won Man Booker Prize in 1997 for her book:

- A History of Wolves
- B 2 States
- C The Minisz of Utmost Happiness
- D The God of Small Things

Answer: D

Question 84

The BHIM app was launched by Prime Minister Narendra Modi on:

- A 31st October, 2016
- B 26th January, 2016
- C 30th December, 2016
- D 15th August, 2016

Answer: C

Question 85

Who is the only foreigner to receive the Padma Vibhushan Award in 2019?

- A Anilkumar Manibhai Naik
- B Teejan Bai
- C Balwant Moreswar Purandare
- D Ismail Omar Guelleh

Answer: D

Question 86

Natural pearls contain more than 80%

- A sodium carbonate
- B calcium carbonate
- C silica
- D quartz

Answer: B

Question 87

Which of the following is the first port in India to become a public company?

- A Kandla
- B Mangalore

- C Ennore
- D Morrugao

Answer: C

Question 88

India was divided into India and Pakistan by the Act.

- A India Independence
- B Division of India
- C Partition of India
- D Government of India

Answer: A

Question 89

..... is the world's richest cricket board as of year 2018.

- A England and Wales Cricket Board
- B Cricket South Africa
- C Board of Control for Cricket in India
- D Pakistan Cricket Board

Answer: C

Question 90

Tennis player Somdev Kishore Devvarman was awarded the in 2018.

- A Padma Bhushan
- B Bharat Ratna
- C Padma Vibhushan
- D Padma Shree

Answer: D

Question 91

Which of the below mentioned human organs can regrow after damage in adults?

- A Lung
- B Gall bladder
- C Kidney

D Liver

Answer: D

Question 92

Which of the following is NOT a mint of the Security Printing and Minting Corporation of India Limited (SPMCIL)?

A India Government Mint, Gorakhpur

B India Government Mint, Mumbai

C India Government Mint, Hyderabad

D India Government Mint, Kolkata

Answer: A

Question 93

..... was affectionately called 'Ba'.

A Vijayalaxmi Pandit

B Indira Gandhi

C Kasturba Gandhi

D Sarojini Naidu

Answer: C

Question 94

Eid ul-Fitr is celebrated on the first day of Shawwal, which falls in the month of the Islamic calendar.

A tenth

B sixth

C eighth

D twelfth

Answer: A

Question 95

Name the recipient of the Padma Bhushan Award, 2019 for Trade and Industry (Food Processing).

A Mahashay Dharam Pal Gulati

B Narsingh Dev Jamwal

C Harvinder Singh Phoolka

D Vallabhbai Vasrambhai Marvaniya

Answer: A

Question 96

Photophobia means:

- A Addiction to light
- B Addiction to taking photos
- C Sensitivity to light
- D Dislike towards taking photos

Answer: C

Question 97

Tata Iron And Steel company (TISCO) was incorporated in:

- A 1911
- B 1907
- C 1913
- D 1915

Answer: B

Question 98

Vedic civilisation flourished along the river

- A Indus
- B Yamuna
- C Ganga
- D Saraswati

Answer: D

Question 99

The last Nizam of Hyderabad:

- A Nasir Jung
- B Qulich Khan
- C Mir Osman Ali Khan
- D Muzafar Jung

Answer: C

Question 100

Bos mutus is the scientific name for:

- A wild yak
- B Ox
- C Horse
- D Buffalo

Answer: A

Quant

Instructions

For the following questions answer them individually

Question 101

$3 \times 7 + 4 - 6 \div 3 - 7 + 45 \div 5 \times 4 + 49$ is equal to:

- A 99
- B 101
- C 103
- D 67

Answer: B

Explanation:

$$3 \times 7 + 4 - 6 \div 3 - 7 + 45 \div 5 \times 4 + 49$$

$$21 + 4 - 2 - 7 + 36 + 49$$

$$16 + 36 + 49$$

$$101$$

Question 102

A steel vessel has a base of length 60 cm and breadth 30 cm. Water is poured in the vessel. A cubical steel box having edge of 30 cm is immersed completely in the vessel, By how much will the water rise?

- A 12 cm
- B 9 cm
- C 10 cm
- D 15 cm

Answer: D

Explanation:

as we know that when we immerse object in liquid , the liquid level rises. This is because the object displaces liquid and therefore

the volume of liquid displaced= volume of object

let the rise be H cm.

volume of cubical object= $vessel\ length \times vessel\ breadth \times vessel\ H$ (rise in water level)

and the volume of cube as per formula is a^3

therefore

$$60 \times 30 \times H = 30^3$$

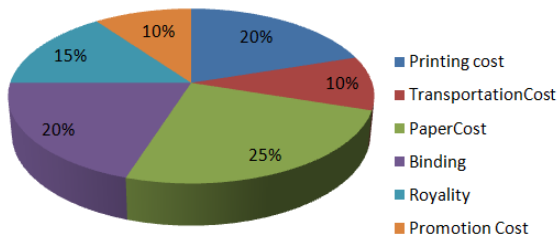
by solving we get

$$H=15\text{ cm}$$

Question 103

The given pie-chart, shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and the answer the questions based on it.

Various Expenditures (in percentage) Incurred in Publishing a Book



In the given pie-chart by what percentage the Promotion cost on the book is less than the Paper cost?

- A 75
- B 50
- C 25
- D 60

Answer: D

Explanation:

Let total expenditure=100

Expenditure on paper paper cost =25

Expenditure on paper promotion cost =10

Cost difference=25-10=15

Percentage the Promotion cost on the book is less than the Paper cost= $\frac{15}{25} \times 100 = 60\%$

Question 104

If $a + b - c = 7$, $ab - bc - ca = 21$, then $a^3 + b^3 - c^3 + 3abc =$

- A -98
- B 98
- C 124
- D 117

Answer: A

Question 105

If two equal circles whose centres are O and O' intersect each other at the point A and B, $OO' = 12$ cm and $AB = 16$ cm, then radius of the circle is:

- A 12 cm
- B 15 cm
- C 14 cm
- D 10 cm

Answer: D

Question 106

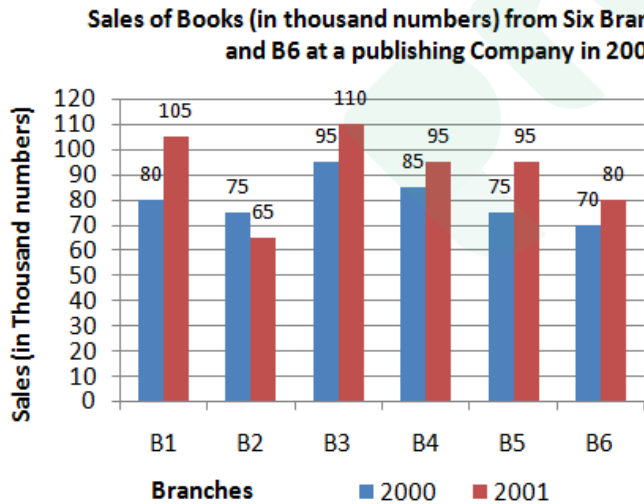
A boy increases his speed to $\frac{9}{5}$ times of his original speed. By this he reaches his school 30 minutes before the usual time. How much time does he take usually?

- A 67.50 minutes
- B 67.10 minutes
- C 67.75 minutes
- D 67.25 minutes

Answer: A

Question 107

The given bar chart, shows the sales of books (in thousand number) from six branches of a publishing company during two consecutive years 2000 and 2001.



In the given bar-chart, the ratio of total sales of all branches (in thousand numbers) for the year 2000 to 2001 is:

- A 55 : 48
- B 7 : 11
- C 45 : 58
- D 48 : 55

Answer: D

Question 108

₹15,000 was invested by A and B together to start a small business. They got a profit of ₹2,000 at the end of the year. B took his profit share of ₹600. How much did A invest?

- A ₹10,000
- B ₹2,000
- C ₹10,500
- D ₹9,000

Answer: C

Question 109

Pipe A can fill a tank in 16 minutes and pipe B empties it in 24 minutes. If both the pipes are opened together. after how many minutes should B be closed, so that the tank is filled in 30 minutes?

- A 20 minutes
- B 18 minutes
- C 21 minutes
- D 15 minutes

Answer: C

Question 110

If roots of $x^2 - 4x + a = 0$ are equal, then $a =$

- A -8
- B 4
- C -4
- D 8

Answer: B

Question 111

If a sum becomes ₹1,460 in two years and ₹1,606 in three years due to the compound interest, then annual rate of interest is:

- A 11%
- B 9%
- C 10%
- D 8%

Answer: C

Question 112

Fresh fruit contains 68% water and dry fruit contains 20% water. How much dry fruit can be obtained from 100 kg of flesh fruits?

- A 80
- B 60
- C 40
- D 20

Answer: C

Question 113

Side AB of a triangle ABC is 80 cm long, whose perimeter is 170 cm. If angle ABC = 60° , the shortest side of triangle ABC measures cm.

- A 25
- B 21
- C 17
- D 15

Answer: C

Question 114

$(8 + 4 - 2) \times (17 - 12) \times 10 - 89$ is equal to:

- A 4150
- B 4120
- C 413
- D 411

Answer: D

Explanation:

$$\begin{aligned} (8 + 4 - 2) \times (17 - 12) \times 10 - 89 &= 10 \times 5 \times 10 - 89 \\ &= 500 - 89 = 411 \end{aligned}$$

Question 115

When the integer n is divided by 7, the remainder is 3. What is the remainder if 5n is divided by 7?

- A 0
- B 3
- C 2
- D 1

Answer: D

Explanation:

Dividend = n

Divisor = 7

Quotient = Q

Remainder = 3

 $n = 7Q + 3$

Multiplying with 5,

 $5n = 35Q + 15$

Dividing with 7,

 $5n = 35Q + 15$ $7 = 7 + 7$

Here, When 15 is divided by 7, remainder will be 1.

Therefore, 1 will be the remainder when 5n is divided by 7.

Question 116**A earns ₹40 per hour and works for 12 hours. B earns ₹60 per hour and works for 10 hours. Find the ratio of their per day wages.****A** 4 : 5**B** 5 : 4**C** 15 : 4**D** 6 : 5**Answer:** A**Explanation:**

Salary of A per hour = Rs.40

Number of hours A work per day = 12 hours

Then, Total salary A gets per day = $12 \times 40 = \text{Rs.}480$

Salary of B per hour = Rs.60

Number of hours B work per day = 10 hours

Then, Total salary B gets per day = $60 \times 10 = \text{Rs.}600$ Therefore, Ratio of their salaries = $480 : 600 = 4 : 5$.**Question 117****The perimeter of a square is equal to the perimeter of a rectangle of length 16 cm and breadth 14 cm. Find the circumference of a semicircle whose diameter is equal to the side of the square.****A** 25.57 cm**B** 31.57 cm**C** 23.57 cm**D** 21.57 cm**Answer:** C**Explanation:**

Let the side of the square be a cm.

Perimeter of the square = $4a$ cm.Perimeter of the rectangle = $2(16+14) = 2 \times 30 = 60$ cmGiven, $4a = 60 \Rightarrow a = 15$ cm

Diameter of semicircle = 15 cm

 $22 \quad 15$ Then, Circumference of semicircle = $7 \times 2 + 15 = 23.57 + 15 = 38.57 \text{ cm}$

Question 118

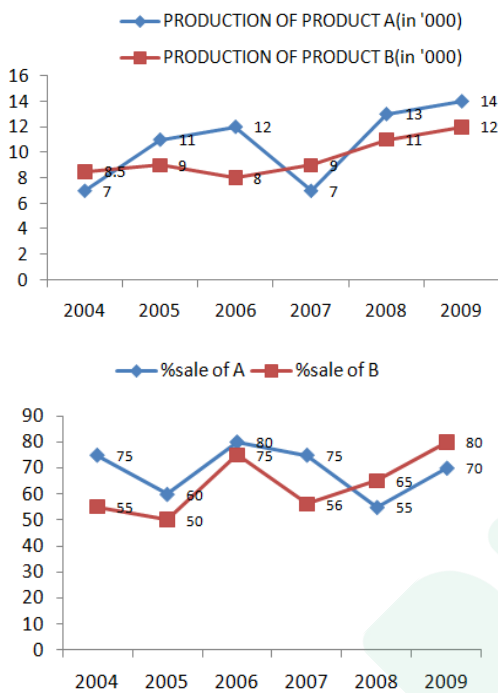
The unequal side of an isosceles triangle is 2 cm. The medians drawn to the equal sides are perpendicular. The area of the triangle is:

- A 1 cm^2
- B 3 cm^2
- C 5 cm^2
- D 2 cm^2

Answer: B

Question 119

The line graph shows the production of product A and B (in thousands) during the period 2004 to 2009 and the second line Graph shows the percentage sale of these products.



In the given line graph, what is the total sale of Product A in the year 2005 and 2009 taken together?

- A 17500
- B 18500
- C 14600
- D 16400

Answer: D

Explanation:

Production of A in 2005 = 11000

Sale of A in 2005 = 60% of 11000 = 6600

Production of A in 2009 = 14000

Sale of A in 2009 = 70% of 14000 = 9800

Therefore, Total production of A in 2005 and 2009 together = 6600+9800 = 16400.

Question 120

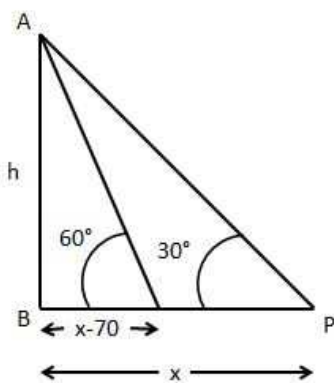
When the sun's angle of depression changes from 30° to 60° , the length of the shadow of a tower decreases by 70 m. What is the height of the tower?

- A 45.65 m
- B 60.55 m
- C 65.55 m
- D 36.55 m

Answer: B

Explanation:

Let the initial distance of the shadow from the foot of the tower be x m
Then, New distance will be $(x-70)$ m



$$\tan 30^\circ = \frac{h}{x}$$

$$\Rightarrow \frac{1}{\sqrt{3}} = \frac{h}{x}$$

$$\Rightarrow x = h\sqrt{3}$$

$$\tan 60^\circ = \frac{h}{x - 70}$$

$$\Rightarrow \sqrt{3} = \frac{h}{x - 70}$$

$$\Rightarrow \sqrt{3} = \frac{h}{h\sqrt{3} - 70}$$

$$\Rightarrow h = \sqrt{3}(h\sqrt{3} - 70)$$

$$\Rightarrow h = 3h - 70\sqrt{3}$$

$$\Rightarrow 2h = 70\sqrt{3}$$

$$\Rightarrow h = 35\sqrt{3} = 35 \times 1.73 = 60.55 \text{ m}$$

Therefore, The height of the tower = 60.55 m

Question 121

If 20% of $a = b$, then $b\%$ of 20 is equal to:

- A 4% of a

- B 2% of a
- C 16% of a
- D 8% of a

Answer: A

Explanation:

Given, 20% of a = b

Then, b% of 20 = $20\% \times \frac{1}{100} \times 20 = 20\% \times 20\%$ of a

$$= 5 \times 5 \times a = 25 \times a$$

= 4% of a

Question 122

$(\operatorname{cosec} A - \sin A)^2 + (\sec A - \cos A)^2 - (\cot A - \tan A)^2$ is equal to.

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

Answer: A

Explanation:

$$\begin{aligned} & (\operatorname{cosec} A - \sin A)^2 + (\sec A - \cos A)^2 - (\cot A - \tan A)^2 \\ &= \operatorname{cosec}^2 A + \sin^2 A - 2\operatorname{cosec} A \sin A + \sec^2 A + \cos^2 A - 2\sec A \cos A - (\cot^2 A + \tan^2 A - 2\cot A \tan A) \\ &= \operatorname{cosec}^2 A + \sin^2 A - 2 + \sec^2 A + \cos^2 A - 2 - \cot^2 A - \tan^2 A + 2 \\ &= (\operatorname{cosec}^2 A - \cot^2 A) + (\sin^2 A + \cos^2 A) + (\sec^2 A - \tan^2 A) - 2 \\ &= 3 - 2 = 1 \end{aligned}$$

Question 123

$\frac{0.72 \times 0.72 \times 0.72 - 0.39 \times 0.39 \times 0.39}{0.72 \times 0.72 + 0.72 \times 0.39 + 0.39 \times 0.39}$ is equal to:

- A 0.33
- B 0.45
- C 0.39
- D 0.36

Answer: A

Explanation:

$$a^3 - b^3$$

Given fraction is in the form of $\frac{a^3 - b^3}{a^2 + ab + b^2}$ which is $a - b$

Here, $a = 0.72$ and $b = 0.39$

Therefore, $a - b = 0.72 - 0.39 = 0.33$

Question 124

A number is first decreased by 10% and then increased by 10%. The number so obtained is 100 less than the original number. The original number is:

- A 100000
- B 100
- C 10000
- D 1000

Answer: C

Explanation:

Let the number be $100x$.

$$\text{New number after decrease and increase of 10\%} = 100x \times \frac{90}{100} \times \frac{110}{100} = 99x$$

Given, $100x - 99x = 100$

$x = 100$

Then, The original number = $100x = 100 \times 100 = 10000$.

Question 125

A man could not decide between discount of 30% or two successive discounts of 25% and 5%, both given on a shopping of ₹2,000. What is the difference between both the discounts?

- A ₹15
- B No difference
- C ₹20
- D ₹25

Answer: D

Explanation:

Given, Marked Price = Rs.2000

Discount-1 = 30% of Rs.2000 = Rs.600

$$\text{Effective discount with discounts of 25\% and 5\%} = -25 - 5 + \frac{25 \times 5}{100} = -30 + 1.25 = -28.75\%$$

28.75% of Rs.2000 = Rs.575

Therefore, Difference between the discounts = Rs.600 - Rs.575 = Rs.25.

Question 126

At what rate percent per annum with simple interest will a sum of money double in 12.5 years?

- A 8
- B 10
- C 12.5
- D 6

Answer: A

Explanation:

Let the Principal be Rs.P
 Amount after 12.5 years = Rs.2P
 Interest = Rs.2P - Rs.P = Rs.P
 Let the rate of interest be R%

$$P \times R \times 12.5$$

$$100 = P$$

$$\Rightarrow R = \frac{100}{12.5} = 8\%$$

Therefore, Rate of interest = 8%.

Question 127

The LCM of two numbers is 168 and their HCF is 12. If the difference between the numbers is 60. what is the sum of the numbers?

- A 122
- B 164
- C 112
- D 108

Answer: D

Explanation:

Let the two numbers be a and b.
 Product of two numbers = Product of their LCM and HCF
 $ab = 168 \times 12 = 2016$
 Given, $a - b = 60$
 $(a + b)^2 = (a - b)^2 + 4ab$
 $(a + b)^2 = 60^2 + 4 \times 2016 = 3600 + 8064 = 11664$
 Then, $a + b = 108$
 Therefore, Sum of two numbers = 108.

Question 128

If $x + x^{-1} = 2$, then the value of $x^3 + x^{-3}$ is:

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

Answer: D

Explanation:

Given, $x + x^{-1} = 2$

Cubing on both sides

$$(x + x^{-1})^3 = 2^3$$

$$\Rightarrow x^3 + x^{-3} + 3 \times x \times x^{-1}(x + x^{-1}) = 8$$

$$\Rightarrow x^3 + x^3 + 3(2) = 8$$

$$\text{Therefore, } x^3 + x^3 = 8 - 6 = 2$$

Question 129

A unique circle can always be drawn through x number of given non-collinear points, then x must be:

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

Answer: D

Explanation:

A unique circle can be drawn using 3 non-collinear points.
Hence, $x = 3$.

Question 130

The speed of a car increases by 2 km/hr after every one hour. If the distance travelled in the first one hour was 35 km, what was the total distance travelled in 12 hours?

- A 558 km
- B 650 km
- C 560 km
- D 552 km

Answer: D

Explanation:

The distances travelled by the car in each hour will be 35,37,39,....

The distance travelled in the last hour will be $35 + (12-1)2 = 35 + 12 \times 2 = 57$ km

Then, Total distance travelled in 12 hours = $12 (35 + 57) = 6 \times 92 = 552$ km

Question 131

Seema bought a mobile at a discount of 20%. Had she received a discount of 25%, she could have saved additional ₹1000. How much did she pay for the mobile ?

- A ₹24,000
- B ₹22,000
- C ₹25,000
- D ₹16,000

Answer: D

Explanation:

Let the MRP of the mobile be ₹x

Discount = 20% of Rs.100x = Rs.20x
 Selling Price = Rs.100x - Rs.20x = Rs.80x
 If the discount is 25%, then Selling Price = 75% of Rs.100x = Rs.75x
 Given, Rs.80x - Rs.75x = Rs.1000
 $5x = 1000$
 $x = 200$
 Then, Amount which Seema paid = Rs.80x = Rs.80*200 = Rs.16000.

Question 132

The average weight of 16 boys in a class is 60.25 kg and that of the remaining 10 boys is 45.75 kg. The average weight of all boys in the class is:

- A 54.67
- B 53.76
- C 55.37
- D 56.27

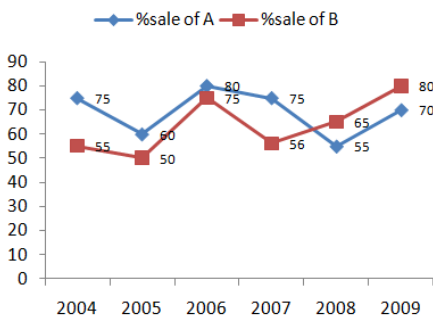
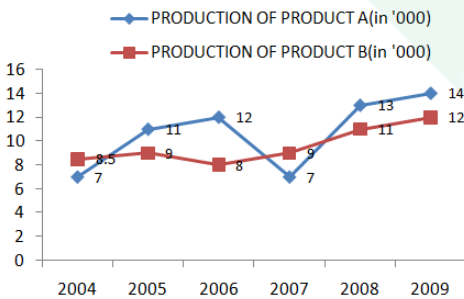
Answer: A

Explanation:

Given, Average weight of 16 students = 60.25 kg
 Then, Total weight of 16 students = $60.25 \times 16 = 964$ kg
 Average weight of 10 students = 45.75 kg
 Then, Total weight of 10 students = $45.75 \times 10 = 457.5$ kg
 Then, Total weight of 26 students = $964 + 457.5 = 1421.5$ kg
 Therefore, Average weight of 26 students = $\frac{1421.5}{26} = 54.67$ kg

Question 133

The line graph shows the production of product A and B (in thousands) during the period 2004 to 2009 and the second line Graph shows the percentage sale of these products.



In the given line graph, what is the total sale of Products A and B in the year 2007?

- A 13460

- B 10290
- C 11500
- D 12490

Answer: B

Explanation:

Production of A in 2007 = Rs.7000
 Sale of A in 2007 = 75% of Rs.7000 = Rs.5250
 Production of B in 2007 = Rs.9000
 Sale of B in 2007 = 56% of Rs.9000 = Rs.5040
 Total sale of A and B in 2007 = Rs.5250+Rs.5040 = Rs.10290

Question 134

A cube of side 1 m length is cut into small cubes of side 10 cm each. How many such small cubes can be obtained?

- A 10
- B 100
- C 10000
- D 1000

Answer: D

Explanation:

Number of small cubes = $\frac{\text{Volume of large cube}}{\text{Volume of each small cube}}$

$$= \frac{10^3}{1^3} = \frac{1000}{1} = 1000$$

Question 135

A sells a car to B at 10% loss. If B sells it for ₹5,40,000 and gains 20%. the cost price of the car for A was:

- A ₹5,10,000
- B ₹5,40,000
- C ₹5,20,000
- D ₹5,00,000

Answer: D

Explanation:

Selling Price of B = Rs.540000
 Profit = 20%

$$\text{Then, Cost Price of B} = 540000 \times \frac{100}{120} = \text{Rs.450000}$$

Cost Price of B = Selling Price of A = Rs.450000

Loss of A = 10%

$$\text{Cost Price of A} = 450000 \times \frac{100}{90} = \text{Rs.500000}$$

Question 136

If $a + b = 8$, $ab = -12$, then $a^3 + b^3 =$

- A -244
- B -833
- C 800
- D 833

Answer: C

Explanation:

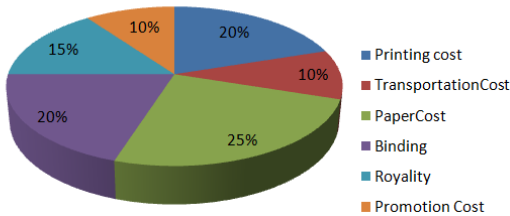
Given, $a + b = 8$ and $ab = -12$

$$\begin{aligned} \text{Then, } a^3 + b^3 &= (a + b)^3 - 3ab(a + b) \\ &= 8^3 - 3(-12)(8) = 512 + 288 = 800 \end{aligned}$$

Question 137

The given pie-chart, shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and the answer the questions based on it.

Various Expenditures (in percentage) Incurred in Publishing a Book



In the given pie-chart, by what percentage Printing and Binding cost on the book is less than the other costs?

- A $\frac{50}{3}$
- B $\frac{100}{3}$
- C $\frac{47}{3}$
- D $\frac{20}{3}$

Answer: B

Explanation:

Total Printing and Binding cost = $20+20 = 40\%$ of total cost

Other costs = $10+25+15+10 = 60\%$ of total cost.

$$\text{Therefore, Required percentage} = \frac{60 - 40}{60} \times 100 = \frac{20}{60} \times 100 = \frac{100}{3} \%$$

Question 138

$\frac{4}{3} \tan^2 60^\circ + 3 \cos^2 30^\circ - 2 \sec^2 30^\circ - \frac{3}{4} \cot^2 60^\circ$ is equal to:

- A $\frac{8}{3}$
- B $\frac{5}{4}$

C $\frac{7}{3}$

D $\frac{10}{3}$

Answer: D

Explanation:

$$\begin{aligned} & \frac{4}{3} \tan^2 60^\circ + 3 \cos^2 30^\circ - 2 \sec^2 30^\circ - \frac{3}{4} \cot^2 60^\circ \\ &= 3 \times (\sqrt{3})^2 + 3 \times \left(\frac{\sqrt{3}}{2}\right)^2 - 2 \times (\sqrt{3})^2 - 4 \times \left(\frac{1}{\sqrt{3}}\right)^2 \\ &= 3 \times 3 + 3 \times \frac{3}{4} - 2 \times 3 - 4 \times \frac{1}{3} \\ &= 9 + \frac{9}{4} - 6 - \frac{4}{3} \\ &= \frac{10}{3} \end{aligned}$$

Question 139

The average of 26 numbers is zero. Of them, how many may be greater than zero, at the most?

- A 0
- B 25
- C 20
- D 15

Answer: B

Explanation:

Given that the average of 26 numbers is zero.
Then, Sum of 26 numbers = 0
In that, If sum of 25 numbers is 25a, then the 26th number should be -25a.
Hence, Maximum 25 numbers can be greater than zero.

Question 140

What will be total cost of polishing curved surface of a wooden cylinder at rate of ₹20 per m^2 , if its diameter is 40 m and height is 7 m?

- A ₹18600
- B ₹18400
- C ₹17500
- D ₹17600

Answer: D

Explanation:

Given, Diameter of the cylinder = 40 m
Radius of the cylinder = 20 m
Height of the cylinder = 7 m
Curved surface area of the cylinder = $2\pi rh$
 $= 2 \times 7 \times 20 \times 7 = 880m^2$

For 1 sq.m, Rs.20 will be charged.

Then, for 880 sq.m, Rs.20*880 = Rs.17600 will be charged.

Question 141

A can do a work in 20 days, while B can do the same work in 25 days. They started the work jointly. Few days later C also joined them and thus all of them completed the whole work in 10 days. All of them were paid total of ₹700. What is the share of C?

A ₹75

B ₹55

C ₹70

D ₹65

Answer: C

Explanation:

Given, A can do the work in 20 days.

B can do the work in 25 days

100

Efficiency of A = $\frac{100}{20} = 5\%$

100

Efficiency of B = $\frac{100}{25} = 4\%$

After few days, C joined.

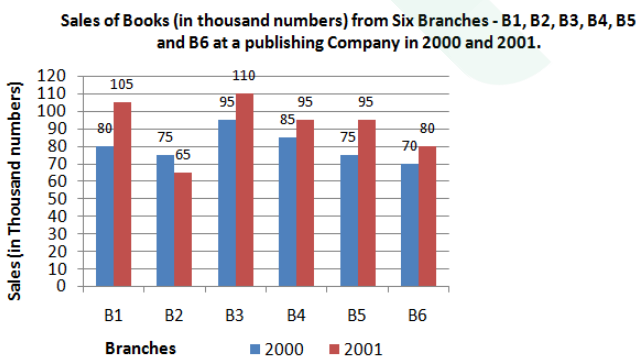
If they work for 10 days, then $(5+4)*10 = 90\%$ of work will be completed by A and B.

Remaining 10% of work will be done by C.

Hence, Salary of C will be 10% of Rs.700 = Rs.70.

Instructions

The given bar chart shows the sales of books (in thousand number) from six branches of a publishing company during two consecutive years 2000 and 2001.



Question 142

In the given bar-chart, total sales of branches B1, B3 and B5 taken together for both the years (in thousand numbers) is:

A 560

B 240

C 310

D 650

Answer: A

Explanation:

Total sales of B1(in thousands) = $105+80 = 185$

Total sales of B3(in thousands) = $95+110 = 205$

Total sales of B5(in thousands) = $75+95 = 170$

Total sales of B1, B3 and B5 together(in thousands) = $185+205+170 = 560$

Question 143

In the given bar-chart, the ratio of total sales of branches B1, B3 and B5 to total sales of branches B2, B4 and B6 taken together for both the years (in thousand numbers) is:

A 45 : 23

B 47 : 56

C 56 : 47

D 23 : 45

Answer: C

Explanation:

Total sales of B1(in thousands) = $105+80 = 185$

Total sales of B3(in thousands) = $95+110 = 205$

Total sales of B5(in thousands) = $75+95 = 170$

Total sales of B1, B3 and B5 together(in thousands) = $185+205+170 = 560$

Total sales of B2(in thousands) = $75+65 = 140$

Total sales of B4(in thousands) = $85+95 = 180$

Total sales of B6(in thousands) = $70+80 = 150$

Total sales of B2, B4 and B6 together(in thousands) = $140+180+150 = 470$

Therefore, Ratio = $560 : 470 = 56 : 47$.

Instructions

For the following questions answer them individually

Question 144

From a point P on a level ground, the angle of elevation of the top of a tower is 30° . If the tower is 270 m high. the distance of point P from the foot of the tower is:

A 476.65 m

B 367.65 m

C 467.65 m

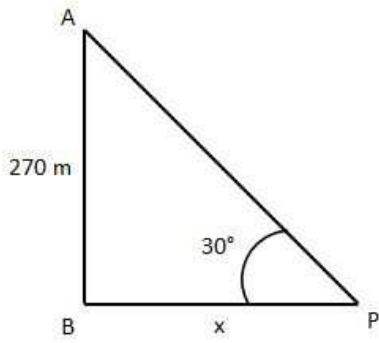
D 376.65 m

Answer: C

Explanation:

Given, Height of the tower = 270 m

Let the distance from the foot of the tower to P be x m



$$\tan 30 = \frac{AB}{BP}$$

$$\frac{1}{\sqrt{3}} = \frac{270}{x}$$

$$x = 270\sqrt{3} = 270 \times 1.732 = 467.65m$$

Question 145

The product of two numbers is 6760 and their HCF is 13. How many such pair of numbers can be formed?

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

Answer: B

Explanation:

Let the two numbers be $13x$ and $13y$ since HCF is divisible by two numbers.

$$13x \times 13y = 6760$$

$$169xy = 6760$$

$$xy = 40$$

For HCF to be 13, there should be no common factors except 1.

Then, (x,y) can be $(5,8)$ and $(1,40)$.

Therefore, The numbers can be $13 \times 5, 13 \times 8 = 65, 104$ and $13 \times 1, 13 \times 40 = 13, 520$

Therefore, There can be 2 pairs of such numbers.

Question 146

12 buckets of water fill a tank when the capacity of each bucket is 13.5 litres. How many buckets will be needed to fill the same tank. if the capacity of each bucket is 9 litres?

- A 18
- B 16
- C 15
- D 17

Answer: A

Explanation:

Number of buckets₁ x Capacity of each bucket₁ = Number of buckets₂ x Capacity of each bucket₂

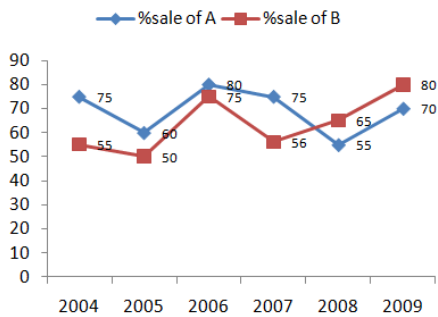
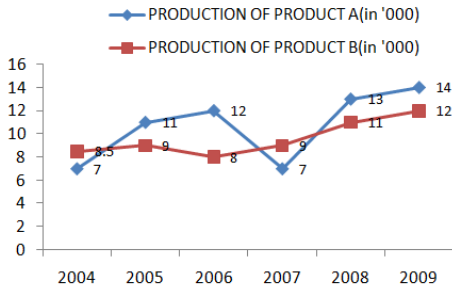
$$12 \times 13.5 = 9 \times x$$

$$\Rightarrow x = 18$$

Therefore, Number of buckets required = 18 litres.

Question 147

The line graph shows the production of product A and B (in thousands) during the period 2004 to 2009 and the second line Graph shows the percentage sale of these products.



In the given line graph, what is the total sale of Product B in the year 2004 and 2008 together?

- A 12500
- B 14600
- C 11950
- D 11825

Answer: D

Explanation:

Production of B in 2004 = 8500

Sale of B in 2004 = 55% of 8500 = 4675

Production of B in 2008 = 11000

Sale of B in 2008 = 65% of 11000 = 7150

Total sale of B in 2004 and 2008 together = 4675+7150 = 11825.

Question 148

Original breadth of a rectangular box is 20 cm. The box was then remade in such a way that its length increased by 30% but the breadth decreased by 20% and the area increased by 100 cm². What is the new area of the box?

- A 2500 cm²
- B 2200 cm²
- C 2400 cm²
- D 2600 cm²

Answer: D

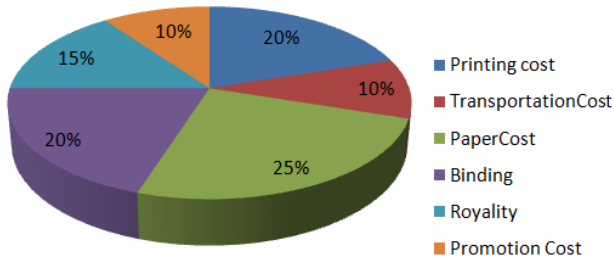
Explanation:

Let the length of the rectangle be l cm
Breadth of the rectangle = 20 cm
Area of the rectangle = $20l$ sq.cm
New length of the rectangle = 130% of $l = 1.3l$ cm
New breadth of the rectangle = 80% of 20 = 16 cm
New area of the rectangle = $16 \times 1.3l = 20.8l$ sq.cm
Given, $20.8l - 20l = 100$
 $\Rightarrow 0.8l = 100 \Rightarrow l = 125$ cm
Therefore, New length of the rectangle = $1.3 \times 125 = 162.5$ cm
New area of the rectangle = $162.5 \times 16 = 2600$ sq.cm

Question 149

The given pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and the answer the questions based on it.

Various Expenditures (in percentage) Incurred in Publishing a Book



In the given pie-chart, by what percentage the Royalty on the book is less than the Printing cost?

- A 20
- B 25
- C 10
- D 15

Answer: B

Explanation:

Expenditure of Royalty of book = 20%
Expenditure of printing = 15%
 $\frac{20 - 15}{15} \times 100 = \frac{5}{15} \times 100 = 33\frac{1}{3}\%$
Required percentage = $\frac{20 - 15}{15} \times 100 = 33\frac{1}{3}\%$

Question 150

3 men, 4 women and 6 children can complete a work in 7 days. A woman does double the work a man does and a child does half the work a man does. How many women alone can complete this work in 7 days?

- A 6
- B 8
- C 9
- D 7

Answer: D

Explanation:

Efficiency of 2 men = Efficiency of 1 women
1

1 man = 2 woman

3

3 men = 2 women

1

Efficiency of 2 children = Efficiency of 1 men = Efficiency of 2 women

1

Efficiency of 1 child = Efficiency of 4 women

3

Efficiency of 6 children = Efficiency of 2 women

3 3

Therefore, Total efficiency of 3 men, 4 women and 6 children = $2 + 4 + 2 = 3 + 4 = 7$ women

Therefore, 7 women are required to complete the work in 7 days.

Instructions

For the following questions answer them individually

Question 151

Select the most appropriate words to fill in the blanks.

It is known that, extreme weather, and diseases are the factors responsible for crop failure.

- A draught
- B draft
- C daft
- D drought

Answer: D

Instructions

Read the following passage and answer the questions given after it.

Passage:

By the 1920s the improvements in street lighting, domestic lighting and a surge in coffee houses - which were sometimes open all night - was complete. As the night became a place for legitimate activity, the length of time people could dedicate to rest dwindled." Evening's Empire puts forward an account of how this happened. "Associations with night before the 17th Century were not good," it says. "The night was a place populated by people of disrepute - criminals, prostitutes and drunks. Even the wealthy, who could afford candlelight, had better things to spend their money on. There was no prestige or social value associated with staying up all night."

That changed in the wake of the Reformation and the counter- Reformation. Protestants and Catholics became accustomed to holding secret services at night. If earlier the night had belonged to reprobates, now respectable people became accustomed to exploiting the hours of darkness. This trend migrated to the social sphere too, but only for those who could afford to live by candlelight. With the advent of street lighting, however, socializing at night began to filter down through the classes.

In 1667, Paris became the first city in the world to light its streets, using wax candles in glass lamps. It was followed by Lille in the same year and Amsterdam two years later. Other cities like Leipzig in central

Germany employed 100 men to tend to 700 lamps. London didn't join their ranks until 1684 but by the end of the century, more than 50 of Europe's major towns and cities were lit at night. Night became fashionable and spending hours lying in bed was considered a waste of time.

"People were becoming increasingly time-conscious and sensitive to efficiency, certainly before the 19th Century," says Roger Ekirch. "But the industrial revolution intensified that attitude by leaps and bounds." Strong evidence of this shifting attitude is contained in a medical journal from 1829 which urged parents to force their children out of a pattern of first and second sleep. "If no disease or accident there intervene, they will need no further repose than that obtained in their first sleep."

Today, most people seem to have adapted quite well to the eight-hour sleep, but Ekirch believes many sleeping problems may have roots in the human body's natural preference for segmented sleep as well as the ubiquity of artificial light. This could be the root of a condition called sleep maintenance insomnia, where people wake during the night and have trouble getting back to sleep, he suggests. The condition first appears in literature at the end of the 19th Century, at the same time as accounts of segmented sleep disappear.

Question 152

Which of the following is NOT true regarding the nights in 1920s in Europe?

- A Mostly people of disrepute haunted the streets at night.
- B Nights became a time for legitimate activity
- C Protestants and Catholics started holding secret services at night.
- D Socializing at night became common among all classes.

Answer: A

Question 153

Which of the following phenomena helped class division vanish vis-a-vis nightlife?

- A Counter-reformation
- B Reformation
- C Streetlights
- D Cheaper candles

Answer: C

Question 154

The author observes, "by the end of the century, more than 50 of Europe's major towns and cities were lit at night." Which century was he referring to?

- A 17th century
- B 19th century
- C 16th century
- D 20th century

Answer: B

Question 155

In which city were 100 men employed to tend to 700 lamps?

- A London
- B Lille
- C Amsterdam
- D Leipzig

Answer: D

Question 156

Which is the most significant cause of sleep maintenance insomnia?

- A ubiquity of artificial light
- B waking up during the night
- C a growing belief in eight-hour-sleep blocs
- D ignoring the human body's natural preference for segmented sleep

Answer: D

Instructions

For the following questions answer them individually

Question 157

Select the wrongly spelt word.

- A miniature
- B municipality
- C monopoly
- D manipulates

Answer: D

Question 158

Identify the segment in the sentence, which contains the grammatical error.

The problem of world hunger arises because of the economic inequality that distort food distribution.

- A that distort food distribution.
- B The problem of
- C because of the economic inequality
- D world hunger arises

Answer: A

Question 159

Identify the segment in the sentence, which contains the grammatical error.

Economic growth is sustainable only if all countries has food security.

- A sustainable only if
- B Economic growth is
- C has food security.
- D all countries

Answer: C

Question 160

**Select the synonym of the given word
PLEGGED**

- A promised
- B respected
- C fulfilled
- D honored

Answer: A

Question 161

**Select the most appropriate meaning of the idiom.
Go against the grain.**

- A Something that is ugly and unpopular
- B Something in conflict with one's value system
- C Something that we can accept with difficulty
- D Something done deliberately

Answer: B

Question 162

**Select the most appropriate meaning of the given idiom.
To beat a dead horse**

- A A significant effort
- B A futile effort
- C A deliberate effort
- D A joint effort

Answer: B

Question 163

**Select the most appropriate word for the given group of words.
constitutional right to cast vote**

- A licensed
- B franking
- C fianchise
- D duty

Answer: C

Question 164

Select the antonym of the given word.

PROVISIONAL

- A planned
- B permanent
- C insured
- D supplied

Answer: B

Question 165

Select the most appropriate word for the given group of words.

power of reading thoughts of others

- A telepathy
- B medium
- C astrology
- D instinct

Answer: A

Question 166

Select the most appropriate meaning of the given idiom.

Bite the bullet

- A to restrain yourself from doing something unpleasant
- B to force yourself to do something unpleasant
- C to amuse yourself by doing something unpleasant
- D to dislike yourself for having done something unpleasant

Answer: B

Question 167

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, Select No improvement.

With cloth in demand both at home, where the population was increasing, and abroad, where British colonies were a captive market, improving spinning methods were essential to meet the demand.

- A improve spinning methods were essential
- B improved spinning methods were essential
- C improved spinning methods was essential
- D No improvement

Answer: B

Question 168

Select the most appropriate word for the given group of words.
a place for the collection of dried plants

- A museum
- B aquarium
- C herbarium
- D flora

Answer: C

Question 169

Select the synonym of the given word.
BENEFICIARIES

- A addressers
- B recipients
- C profiteers
- D donors

Answer: B

Question 170

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, Select No improvement.

With Mumbai's mad rush and heavy traffic, it becomes extremely difficult for people to reach their destination on time.

- A reached their destination on time.
- B to reaching their destination on time.
- C to reach their destination at time.

D No improvement

Answer: D

Question 171

Select the synonym of the given word
PREVENTIVE

A prophetic

B prepared

C predicted

D protective

Answer: D

Question 172

Select the most appropriate word to fill in the blank.

During the Great Depression, America's dance marathon craze was more of a strategy than a form of

A basic; entertainment

B fundamental; celebration

C survival; entertainment

D survival; education

Answer: C

Question 173

Select the synonym of the given word.
NEGLECTED

A superfluous

B unknown

C ignored

D negated

Answer: C

Question 174

Select the antonym of the given word.
PROVINCIAL

A pastoral

B public

C rustic

D metropolitan

Answer: D

Question 175

Select the wrongly spelt word.

A fasinated

B fashion

C facsimile

D fastidious

Answer: A

Question 176

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, Select No improvement.

Eighteenth-century machines typically used water power, hence the early factories was located on the fast-flowing rivers.

A were located near the fast-flowing rivers.

B was located near the fast-flowing rivers.

C were located on the fast-flowing rivers.

D No improvement

Answer: A

Question 177

Select the most appropriate word to fill in the blank.

Trachoma is a debilitating and painful which can cause the eyelashes to turn inwards and stab the eye.

A taint

B infection

C contagion

D factor

Answer: B

Question 178

Select the most appropriate meanmg of the given idiom.

Caught red-handed

A To discover a murderer using the clues

B To catch a thief who steals red paints

C To catch someone doing something illegal

D To try to arrest someone without any evidence

Answer: C

Question 179

Select the most appropriate meaning of the given idiom.

Always a bridesmaid never a bride

- A Someone who always comes second
- B Someone who is born unlucky
- C Someone who fulfills his or her potential
- D Someone who does not deserve to win

Answer: A

Question 180

Select the wrongly spelt word.

- A parakeets
- B pupeteer
- C puppies
- D parapet

Answer: B

Question 181

Select the antonym of the given word.

SUBDUED

- A subtle
- B excited
- C hushed
- D motivated

Answer: B

Question 182

Identify the segment in the sentence; which contains the grammatical error.

That his body did not decompose confirmed what the Greeks thought about him and what Alexander use to believe about himself-that he was not an ordinary man, but a god.

- A thought about him

- B he was not an ordinary man
- C use to believe about himself
- D his body did not decompose

Answer: C

Question 183

Identify the segment in the sentence; which contains the grammatical error.

When Alexander the Great died in Babylon in 323 B.C., his body didn't begin to show signs of decomposition for a full six day, according to historical accounts.

- A his body didn't begin to show
- B When Alexander the Great died
- C signs of decomposition for a full six day
- D according to historical accounts

Answer: C

Question 184

Select the wrongly spelt word.

- A indicate
- B innovate
- C invite
- D innundate

Answer: D

Question 185

Select the most appropriate word for the given group of words.

excessive bureaucratic fuss

- A footnotes
- B red-tape
- C fastidious
- D officious

Answer: B

Question 186

Select the most appropriate word to fill in the blank.

Moisture created multitudes of visitors over the years has damaged King Tut's tomb more than any vandalism and so conservators are working to the historic monument the impact of heavy-breathing, heavysweating tourists.

- A by; guard; against
- B by; dry; off
- C from; dry; against
- D from; guard; from

Answer: A

Question 187

Select the most appropriate word for the given group of words.
a book that contains information on various subjects

- A magazine
- B omnibus
- C guide
- D encyclopedia

Answer: D

Question 188

Select the antonym of the given word.
INDICTED

- A imprisoned
- B examined
- C hanged
- D released

Answer: D

Question 189

Select the most appropriate word to fill in the blank.

Scientists and politicians are becoming aware of another factor that could seriously threaten the balance between production and consumption of food and climate change.

- A duo; questionable
- B alike; shaky
- C both; tenuous
- D alike; feeble

Answer: C

Question 190

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, Select No improvement.

The growing demand for cotton spurred the Industrial Revolution in Britain and inducing Southern planters in America to grows more cotton.

- A No improvement
- B inducing Southern planters in America grew more cotton
- C induce Southern planters in America to grow more cotton
- D induced Southern planters in America to grow more cotton

Answer: D

Instructions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each number.

Passage:

Eating white bread and ready meals could be killing us, according to the first major study linking 'fiilh'a-processed" food with (1) death. The study of 45,000 middle-aged people found that every 10 per cent increase in (2) of "ultra-processed food" was linked to a 14 per cent (3) risk of death within the next eight years. Previous research has linked consumption (4) foods like white bread, ready meals, sausages, sugary cereals, fizzy drinks to a higher risk of high blood (5) and cancer.

Question 191

Select the most appropriate option to fill in blank No.1.

- A quiet
- B early
- C easy
- D late

Answer: B

Question 192

Select the most appropriate option to fill in blank No.2.

- A input
- B digestion
- C making
- D intake

Answer: D

Question 193

Select the most appropriate option to fill in blank No.3.

- A declined

- B decreased
- C improved
- D increased

Answer: D

Question 194

Select the most appropriate option to fill in blank No.4.

- A on
- B in
- C from
- D of

Answer: D

Question 195

Select the most appropriate option to fill in blank No.5.

- A coagulation
- B clotting
- C pressure
- D infection

Answer: C

Instructions

For the following questions answer them individually

Question 196

Select the wrongly spelt word.

- A elementary
- B alleviasion
- C olfactory
- D election

Answer: B

Question 197

Identify the segment in the sentence, which contains the grammatical error.

Hemophilia, a blood clotting disorder, can be passed about the maternal line vdthin families; men are more likely to develop it, while women are usually carriers.

- A likely to develop it
- B a blood clotting disorder
- C can be passed about
- D the maternal line

Answer: C

Question 198

Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, Select No improvement.

As a result of various inventions during Victoria's reign, travel and communication became better and improved sanitation techniques turn filthy streets in clean roads.

- A turning filthy streets in clean roads.
- B turn filthy streets into clean roads.
- C No improvement
- D turned filthy streets into clean roads.

Answer: D

Question 199

Select the synonym of the given word.
DISPROPORTIONATELY

- A unscientifically
- B unreasonably
- C unvaryingly
- D unknowingly

Answer: B

Question 200

Select the antonym of the given word.
ASSAULT

- A attack
- B retreat
- C pacify
- D affront

Answer: B



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