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# Reasoning

## Instructions

For the following questions answer them individually

### Question 1

Select the correct option that will fill in the blank and complete the series.

5,....., 10, 19, 35, 60

A 6

B 8

C 9

D 7

Answer: A

Explanation:

$$5 + 1^2 = 6$$

$$6 + 2^2 = 10$$

$$10 + 3^2 = 19$$

$$19 + 4^2 = 35$$

$$35 + 5^2 = 60$$

Hence missing number series will be 6. 5, 6, 10, 19, 35, 60....

### Question 2

The statements below are followed by two conclusions labeled I and II. Assuming that the information in the statements is true, even if it appears to be at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

Statements:

1. Some animals are tigers.

2. All tigers are vertebrates.

Conclusions:

I. All vertebrates are tigers.

II. Some vertebrates are animals.

A Both conclusion I & II follow

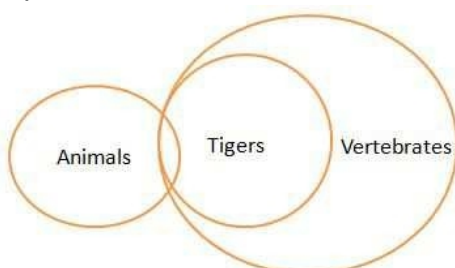
B Only conclusion II follows

C Only conclusion I follows

D Neither conclusion I nor II follows

Answer: B

Explanation:



**Conclusions:**

- I. All vertebrates are tigers-False
- II. Some vertebrates are animals- True.

Only Conclusion II follows.

**Question 3**

The numbers in the following set are related in a certain way. Choose the set that is similar to the following set:  
{128, 8, 32}

A {196, 7, 14}

B {122, 10, 30}

C {144, 36, 72}

D {64, 4, 16}

Answer: D

**Explanation:**

$$128 + 32 = 160$$

$$160 \div 20 = 8$$

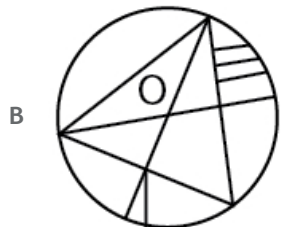
Similarly in option D,  $64 + 16 = 80$

$$80 \div 20 = 4$$

Hence Option D is correct option.

**Question 4**

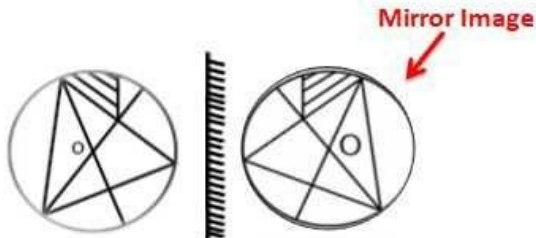
Choose the alternative which most closely resembles the mirror image of the given word when mirror is placed at right side.





Answer: A

Explanation:



Correct Mirror Image is Option A.

The small dot circle will turn to opposite side from Left in Question Image to Right Side in Answer figure.

### Question 5

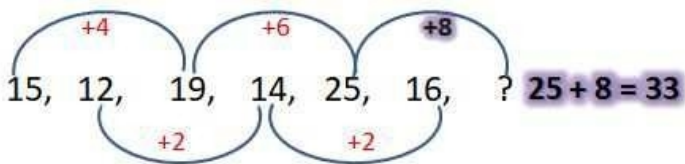
Which number will follow next in the given number series?

15, 12, 19, 14, 25, 16, ?

- A 29
- B 31
- C 35
- D 33

Answer: D

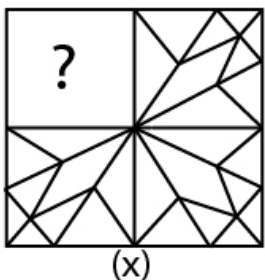
Explanation:

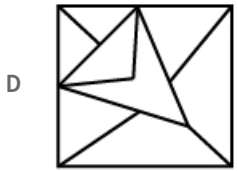
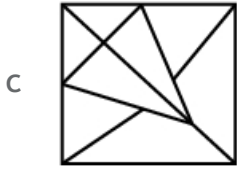
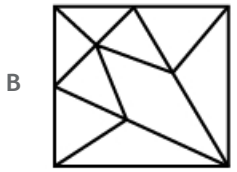
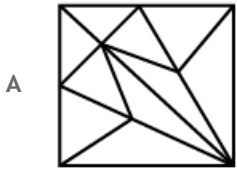


Hence, Correct Option is 33.

### Question 6

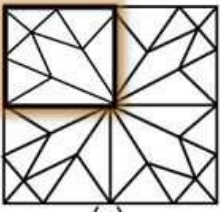
Select the figure which when placed in the blank space of the figure marked 'X' would complete the pattern.





Answer: B

Explanation:



Option B is correct Option.

Question 7

R is taller than T. Both P and Q are taller than S, whose height is between P and T. If is taller than T, who is the shortest?

A P

B S

C Q

D T

Answer: D

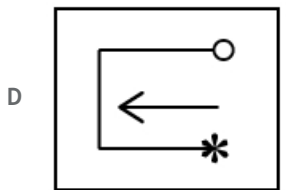
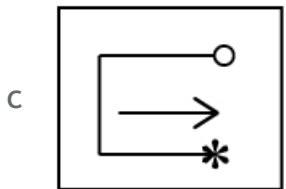
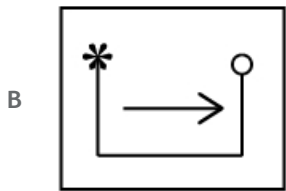
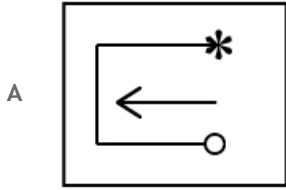
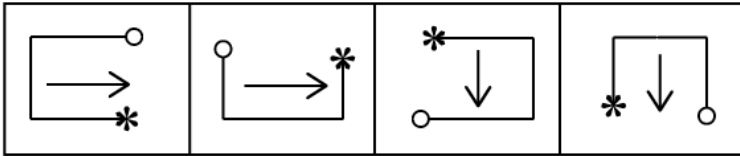
Explanation:

missing value in question

IF \_\_\_\_\_ is taller than T, who is the

Question 8

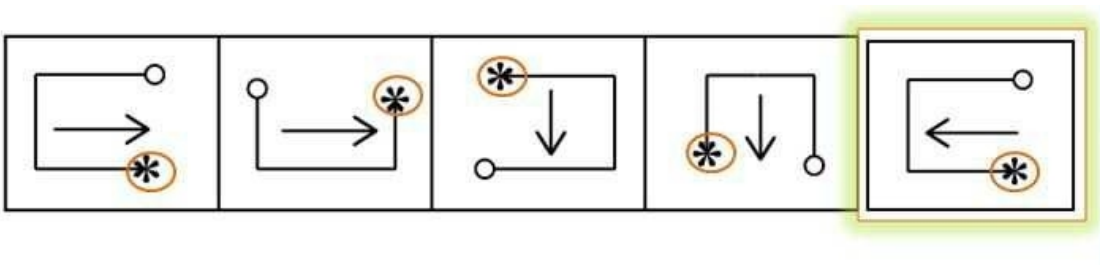
Choose the option that would follow next in the given figure series.



Answer: D

Explanation:

The flower is moving in the anti clock wise direction. Hence Option D is correct option.



Question 9

Pick the odd pair out.

A 17-49

B 5-13

C 9-25

D 15-41

Answer: D

Explanation:

$$49 = 17 \times 3 - 2 = 51 - 2 = 49$$

$$13 = 5 \times 3 - 2 = 15 - 2 = 13$$

$$25 = 9 \times 3 - 2 = 27 - 2 = 25$$

$$41 = 15 \times 3 - 2 = 45 - 2 = 43$$

Hence this option is our answer as it doesn't satisfy our condition.

Question 10

Six persons A, B, C, D, E and F are sitting around a round table facing the center. B is seated to the left of D. E is seated to the right of C. A is facing F, who is seated to the left of C. Who is seated to the left of A?

A E

B D

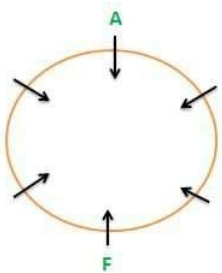
C B

D C

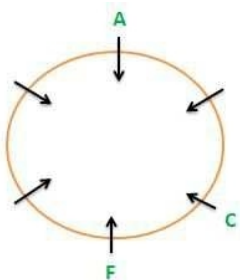
Answer: A

Explanation:

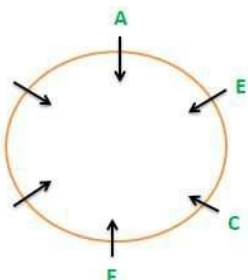
1) A is facing F



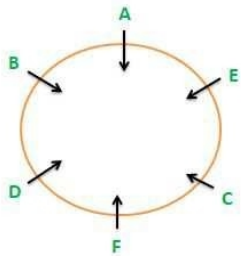
2) F(who) is seated to the left of C



3) E is seated to the right of C



4) B is seated to the left of D (Place it in two empty spaces)



Hence, E seated to the left of A.

#### Question 11

Select the correct option that will fill in the blank and complete the series.  
dmt, fkv, ihy, mdc, .....

- A ryh
- B rzh
- C qzl
- D rxi

Answer: A

Explanation:

Take all the first digit of all the words

$d+2=f$ ,  $f+3=i$ ,  $i+4=m$ , Hence  $m+5=R$

Take all the second digit of all the words

$m-2=k$ ,  $k-3=h$ ,  $h-4=d$ , Hence  $d-5=Y$

Take all the third and last digit of all the words

$t+2=v$ ,  $v+3=y$ ,  $y+4=c$ , Hence  $c+5=H$

Let's consolidate the whole word = RYH.

Hence Sequence will be dmt, fkv, ihy, mdc, ryh..

#### Question 12

AGENDA is related to MEETING in the same way as PROGRAMME is related to:

- A FUNCTION
- B INAUGURATION
- C SPEECH
- D ORGANISATION

Answer: A

Explanation:

Agenda is same meaning word for Meeting.

Similarly, Programme is same meaning word for Function

#### Question 13

Select the option that is related to the third term in the same way as the second term is related to the first term.  
Temple : Worship :: Court : ?



- A Argument
- B Judge
- C Jurisdiction
- D Lawyer

Answer: A

Explanation:

In Temple we do worship. Similarly, in Court we do argument.

#### Question 14

Four numbers have been given out of which three are alike in some manner, while one is different. Choose the odd one.

- A 125
- B 729
- C 1321
- D 343

Answer: C

Explanation:

$$\sqrt[3]{729} = 9$$

$$\sqrt[3]{125} = 5$$

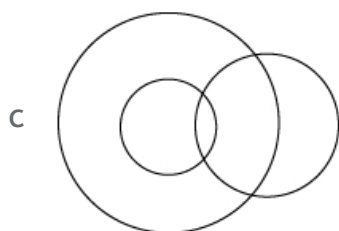
$$\sqrt[3]{343} = 7$$

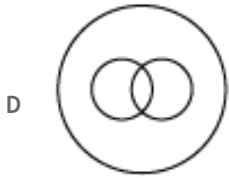
But Option C is not a perfect Cube. Hence Option is odd one.

$$\sqrt[3]{1321} = 10.97$$

#### Question 15

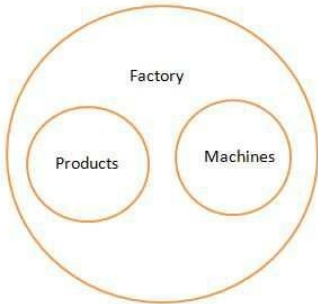
Which of the following Venn diagrams correctly represents the relationships among the classes: Products, Factory, Machines





Answer: A

Explanation:



Factory is big circle which has products and machinery inside the factory.

Hence Option A Diagram is correct.

Question 16

If in a code language ADVENTURES is coded as VDANEUTSER, then SYSTEMATIC would be coded as:

- A CITETAMSYS
- B SYSETAMCIT
- C SYSMETITAC
- D YSTSMETACI

Answer: B

Explanation:

ADVENTURES  
  
VDANEUTSER

SYSTEMATIC  
  
SYSETAMCIT

Hence Option B is correct.

Question 17

If in a code language BADE = 1254 and HATE = 18520, then HEALER = ?

- A 58121185
- B 18512158
- C 15818512
- D 58112158

Answer: A

Explanation:

B A D E : H A T E : H E A L E R  
 1 2 5 4 : 1 8 5 20 : 5 8 12 1 18 5

Hence HEALER=58121185

Option A is correct.

Question 18

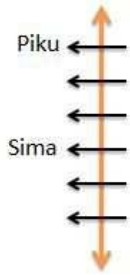
Six girls are sitting in a row facing West. Kim is to the left of Sima and Sony is between Piku and Ria. There are two people seated between Piku and Sima, who is separated from Neela by one person. If Piku is seated at one end of the row, who is at the other end?

- A Sima
- B Kim
- C Ria
- D Neela

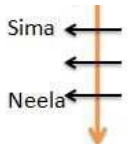
Answer: D

Explanation:

1) There are two people seated between Piku and Sima.



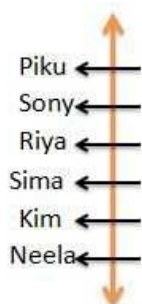
2) Sima (who) is separated from Neela by one person. If



3) Kim is to the left of Sima.



4) Sony is between Piku and Ria.



Hence, on another end of Piku is Neela

Question 19

Which one of the following four-letter clusters does NOT belong to the group?

- A PVTR
- B CIGE
- C WZXY
- D KQOM

Answer: C

Explanation:

PVTR = P+6=V

CIGE = C+6=I

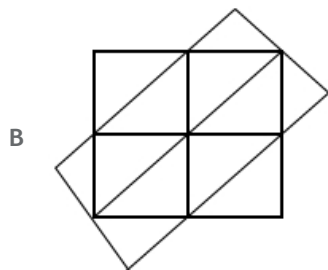
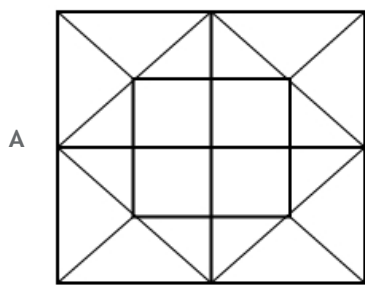
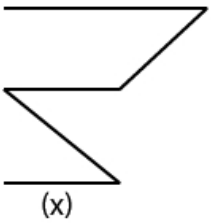
WZXY = W+2=Y

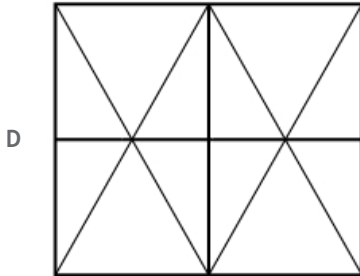
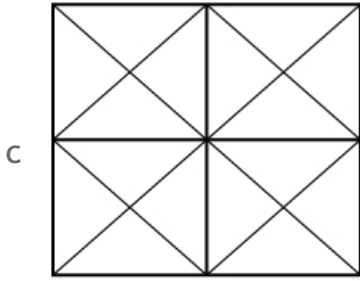
KQOM = K+6=Q

Hence WZXY is odd as from first letter to second letter W-to-Z is only gapping of 2 Alphabets.

Question 20

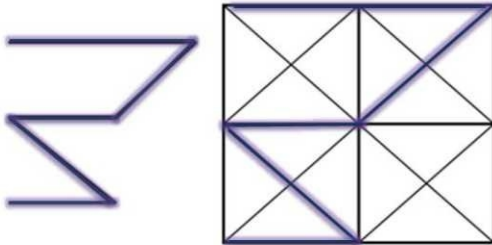
Choose the option in which the figure marked 'x' is embedded.





Answer: C

Explanation:



Hence Option C is correct Embedded image.

### Question 21

The statements below are followed by two conclusions labeled I and II. Assuming that the information in the statements is true, even if it appears to be at variance with generally established facts, decide which conclusion(s) logically and definitely follow(s) from the information given in the statements.

Statements:

1. All roads are streets.
2. Some streets are avenues.

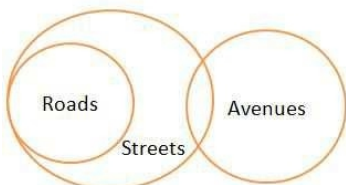
Conclusions:

- I. Some roads are avenues.
- II. All avenues are roads.

- A Both conclusions I and II follow
- B Neither conclusion I nor II follows
- C Only conclusion I follows
- D Only conclusion II follows

Answer: B

Explanation:



Conclusions:

I. Some roads are avenues- **False**

II. All avenues are roads- **False**

Neither Conclusion I nor II follows.

Question 22

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

BYWD : DWUF :: FUSH : ?

A JQOL

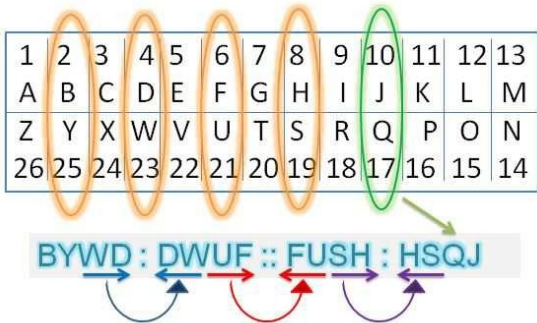
B HSJQ

C HTRJ

D HSQJ

Answer: D

Explanation:



Hence Option D is correct Option.

Question 23

Pick the odd one out.

A Plate

B Ring

C Bangle

D Tyre

Answer: A

Explanation:

All the shapes are round. But Plates has no hole inside circle.. But Ring,Tyre,Bangle has hole inside circle.

Hence Plate is odd option.

Question 24

Which two signs should be interchanged to make the following equation correct?

$$6 \times 2 + 8 - 16 \div 4 = 18$$

A + and ÷

B + and ×

C  $\times$  and  $\div$

D  $-$  and  $\div$

Answer: B

Explanation:

Let Interchange sign  $+$  and  $\times$

$$6 + 2 \times 8 - 16 \div 4 = 18$$

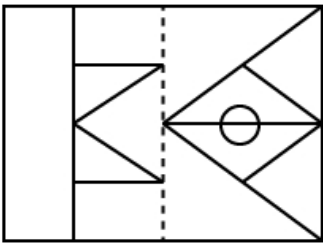
$$6 + 16 - 4 = 18$$

$$22 - 4 = 18$$

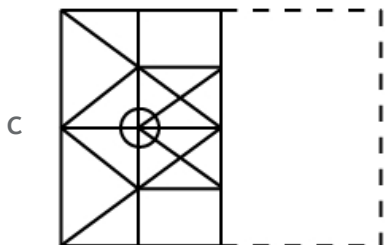
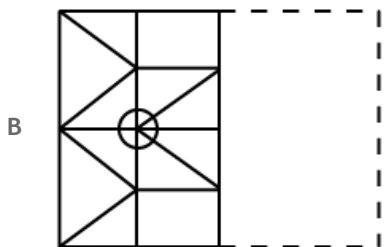
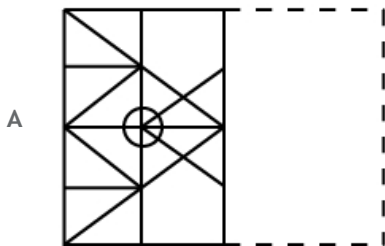
Hence Option B is correct Option

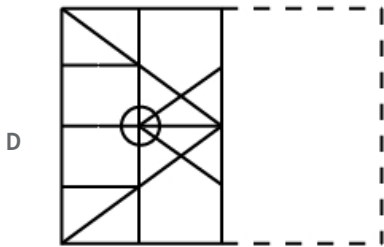
Question 25

How would the pattern given on the square transparent sheet marked 'X' look when the sheet is folded along the dotted line?



(x)

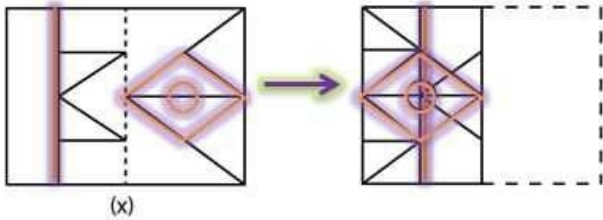




D

Answer: C

Explanation:



(x)

Hence Image C is embedded image as per question.

## General knowledge

### Instructions

For the following questions answer them individually

### Question 26

Which among the following is the smallest mountain range in the world?

- A Ural
- B Sutter Buttes
- C Alps
- D Sierra Nevada

Answer: B

### Question 27

Who is the founder of 'Sulabh Sanitation and Social Reform Movement'?

- A Aruna Roy
- B Medha Patkar
- C Dr Bindeshwar Pathak
- D Baba Amte

Answer: C

### Question 28

Which of the following is regarded as the shortest river of India?



- A Narmada
- B Arvari
- C Kaveri
- D Godavari

Answer: B

#### Question 29

'Jhumur' a traditional dance form, is performed in which of the following states?

- A Odisha
- B Madhya Pradesh
- C Bengal
- D Assam

Answer: D

#### Question 30

Aravind Adiga got the prestigious Man Booker Prize for which book?

- A Selection Day
- B The Kite Runner
- C The White Tiger
- D God of Small Things

Answer: C

#### Question 31

'The Mousetrap' was a famous play written by:

- A Agatha Christie
- B Caryl Churchill
- C William Shakespeare
- D George Bernard Shaw

Answer: A

#### Question 32

India recognizes the Right to.....as being part of Right to Life (Article 21).

- A Medication
- B Acceptance

C Fitness

D Water

Answer: D

### Question 33

Eminent economist and columnist..... has resigned as part time member of Economic Advisory Council to the Prime Minister Narendra Modi.

A Surjit Bhalla

B Arvind Subramanian

C Raghuram Rajan

D Jagdish Bhagwati

Answer: A

### Question 34

Which Indian state has the largest area under forest cover?

A Kerala

B Chhattisgarh

C Arunachal Pradesh

D Madhya Pradesh

Answer: D

### Question 35

In which year was the Right to Education Act enacted in India?

A 2011

B 2004

C 2009

D 2006

Answer: C

### Question 36

Which country among the following options has the shortest constitution in the world?

A Norway

B United Kingdom

C United States of America

D India

Answer: C

Question 37

Which city among the following is the most densely populated city, as of 2018?

A Shanghai

B Tokyo

C Paris

D Istanbul

Answer: B

Question 38

What was the event that fundamentally changed Sardar Vallabhbhai Patel's life and drove him towards politics?

A Bardoli Satyagraha (year 1928)

B The Gandhi Irwin Pact (year 1931)

C Meeting with Mahatma Gandhi in Godhra (year 1917)

D Non-Cooperation Movement (year 1922)

Answer: C

Question 39

During whose rule was the historical Nalanda University established?

A Bindusara

B Dasratha

C Chandragupta

D Kumaragupta

Answer: D

Question 40

In which year did Ms. Sushmita Sen become the first Indian woman to win the 'Miss Universe' title?

A 1996

B 1994

C 1998

D 1991

Answer: B

Question 41

Neutral, expansionary, and contractionary strategies are related to which policy of the government?

- A Monetary policy
- B Banking policy
- C Budgetary policy
- D Fiscal policy

Answer: D

Question 42

The famous 'Ratnagiri Monastery' is located in which Indian state?

- A Karnataka
- B Gujarat
- C Orissa
- D Jharkhand

Answer: C

Question 43

Which of the following is a nocturnal animal?

- A Hamster
- B Bat
- C Porcupine
- D Murids

Answer: B

Question 44

'Hemis Festival' is celebrated in which Indian state?

- A Jammu and Kashmir
- B Karnataka
- C Tamil Nadu
- D Punjab

Answer: A

Question 45

The ancient cities of Harappa and Mohenjo-Daro emerged along the banks of which river?

- A Baghmati River
- B Indus River
- C Brahmaputra River
- D Ganga River

Answer: B

Question 46

Who has won Sayed Modi India Grand Prix Gold Badminton Title 2018 in Men's Singles Titles?

- A Srikanth Kidambi
- B Ajay Jayaram
- C Sameer Verma
- D Prannoy Kumar

Answer: C

Question 47

Baking soda, the common cooking ingredient, has which of the following chemical name?

- A Sodium bicarbonate
- B Sodium chloride
- C Monosodium glutamate
- D Sodium benzoate

Answer: A

Question 48

Union Cabinet has decide to raise contribution of Central Government to National Pension System (NPS) corpus of its employee from 10% to .....

- A 11%
- B 20%
- C 14%
- D 12%

Answer: C

Question 49

'Bishan Singh Bedi' is a legendary Indian player of:

- A cricket
- B hockey
- C football
- D lawn tennis

Answer: A

#### Question 50

What is the SI unit for the measurement of pressure?

- A Newton
- B Joule
- C Ampere
- D Pascal

Answer: D

## Quant

#### Instructions

For the following questions answer them individually

#### Question 51

A shopkeeper marks the price of an article 25% above its cost price. After allowing 10% discount on the market price, the article is sold for ₹720. What is the difference (in ₹) between the cost price and market price of the article?

- A 160
- B 120
- C 180
- D 150

Answer: A

#### Explanation:

Let the cost price be  $x$

marked price =  $1.25x$

Discount allowed = 10%

MP - discount = SP

Therefore  $SP = 0.9 * 1.25x$

Given  $SP = 720$

$(9/10) * (5/4)x = 720$

$x = 80 * 8$

$x = \text{Rs } 640$

MP - CP =  $1.25x - x = 0.25x$

$= 640 / 4$

$= \text{Rs } 160$

Question 52

How many spherical balls each of 2cm radius can be made out of a solid metallic cube of edge 44 cm?(Take  $\pi = \frac{22}{7}$ )

- A 2420
- B 2532
- C 2448
- D 2541

Answer: D

Explanation:

Volume of the cube  $= l^3$   
 $= 44 \times 44 \times 44$

Let 'n' be total number of spherical balls

Therefore  $n \times \left(\frac{4}{3}\right)\pi r^3 = 44 \times 44 \times 44$

$n \times \left(\frac{4}{3}\right) \times \left(\frac{22}{7}\right) 2^3 = 44 \times 44 \times 44$

$n = 44 \times 44 \times 7 \times 3 / 32$

$n = 2541$

Question 53

A sum of ₹6900 was lent partly at 5% and the rest at 8% simple interest. Total interest received after 3 years from both was ₹1359. What was the ratio of money lent at 5% and 8%?

- A 10 : 13
- B 11 : 12
- C 14 : 9
- D 31 : 38

Answer: B

Question 54

The average ages of boys and girls in a class is 14.5 years and 15 years respectively. If the ratio of the number of boys and girls is 2 : 3, then what is the average age (in years) of all students in the class?

- A 15.2
- B 15.4
- C 14.8
- D 14.6

Answer: C

Explanation:

Let the number of boys be  $2x$  and girls be  $3x$

Sum of ages of all the boys  $= 14.5 \times 2x$

$= 29x$

Sum of ages of all the girls  $= 15 \times 3x$

$= 45x$

Sum of ages all the boys and girls  $= 29x + 45x$

$= 74x$

Total strength of the class  $= 2x + 3x = 5x$

Average  $= 74x / 5x$

$= 14.8$

### Question 55

Note-books are bought at 16 for ₹700 and sold at 11 for ₹500. How many notebooks should be sold to gain ₹450?

- A 272
- B 260
- C 254
- D 264

Answer: D

Explanation:

Cost price of each book =Rs 700/16

Selling price of each book=Rs 500/11

Profit on each book=(500/11)-(700/16)

=100(3/176)

Total profit=450

let the number of books required be 'n'

Therefore  $n \times 100 \times \frac{3}{176} = 450$

$n = 88 \times 3$

$n = 264$  books

### Question 56

The compound interest on a sum of ₹15800 for 2 years at 9% per annum, when the interest is compound 8 monthly, is (nearest to a rupee):

- A ₹2992
- B ₹3016
- C ₹3018
- D ₹2956

Answer: C

Explanation:

Given P=15800

R=9%

Time=2 years but for every 8 months it is calculated and so total months =24

so  $24/8=3$  i.e.  $n=3$

$$=P \left(1 + \frac{R}{100}\right)^n - P$$

$$=15800 \left( \left(1 + \frac{9}{100}\right)^3 - 1 \right)$$

$$=15800 \times 23877/125000$$

$$=3018.05$$

### Question 57

Amina saves 16% of her income. Now her income is increased by 20% but she still saves the same amount as before. What is the percentage increase in her expenditure?



- A 20.4
- B 24.2
- C 23.8
- D 21.6

Answer: C

Explanation:

let the income be Rs 100

Savings=Rs 16

Expenditure=100-16

=Rs 84

New income=100\*1.2

=Rs 120

Savings =Rs 16

Expenditure=Rs 104

Percentage increase in the expenditure= $\frac{(104-84)}{84} \times 100$

= $\frac{2000}{84}$

=23.8%

#### Question 58

Walking at 75% of his usual speed, Raghu is 80 minutes late to his office. What is his usual time in hours to cover the same distance?

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

Answer: C

Explanation:

Let the original speed and time taken be 'V' and 't'

Same distance is covered in both the cases.

Therefore  $Vt = \frac{3}{4}V(t+80)$

$4t = 3t + 240$

$t = 240/60$  hours

$t = 4$  hours

#### Question 59

A can do  $\frac{3}{5}$ th of a work in 12 days, B can do  $\frac{1}{3}$ rd of that work in 15 days. They worked together for 12 days and then A left the work, B alone will complete the remaining work in?

- A 9 days
- B 6 days
- C 4 days
- D 5 days

Answer: B

**Explanation:**

Given A does  $(\frac{3}{5})$ th of work in 12 days

so A takes  $12 \times \frac{5}{3} = 20$  days for complete work

similarly B takes 15 days for  $(\frac{1}{3})$ rd work and so for complete work it takes 45 days

LCM of 20 and 45 is 180 units

Each day 'A' does  $180/20 = 9$  units of work

Each day 'B' does  $180/45 = 4$  units of work

So each day both can complete 13 units of work

In 12 days they complete  $12 \times 13 = 156$  units of work

So  $180 - 156 = 24$  units

B can complete 24 units in  $24/4 = 6$  days

**Question 60**

Study the following table, (which shows the number of units of an item manufactured and sold by 5 companies) and answer the question.

Company	No. of Units (in thousand)	
	Manufactured	Sold
A	42	30
B	45	32
C	36	26
D	51	36
E	54	40

Which Company sold the highest percentage of units as compared to manufactured by it?

A B

B A

C E

D C

Answer: C

**Explanation:**

Percentage of units sold compared to manufactured by A =  $(\frac{30}{42}) \times 100 = 71.42$

Percentage of units sold compared to manufactured by B =  $(\frac{32}{45}) \times 100 = 71.11$

Percentage of units sold compared to manufactured by C =  $(\frac{26}{36}) \times 100 = 72.22$

Percentage of units sold compared to manufactured by E =  $(\frac{40}{54}) \times 100 = 74.07$

Answer is E

**Question 61**

The volume of a right circular cone is  $2464 \text{ cm}^3$ . If the radius of its base is 14 cm, then its curved surface area (in  $\text{cm}^2$ ) is: (Take  $\pi = \frac{22}{7}$ )

A  $88\sqrt{58}$

B  $44\sqrt{58}$

C  $44\sqrt{85}$

D  $88\sqrt{85}$

Answer: D

**Explanation:**

$$\text{Volume of a cone} = \frac{1}{3}\pi r^2 h$$

$$\frac{1}{3} * \left(\frac{22}{7}\right) * 14^2 h = 2464$$

$$h = \frac{2464 * 3}{(22 * 196)}$$

$$h = 12 \text{ cm}$$

We know that in a cone slant height  $= \sqrt{h^2 + r^2}$

$$l = \sqrt{14^2 + 12^2}$$

$$l = \sqrt{340}$$

$$l = 2\sqrt{85}$$

$$\text{Curved surface area of a cylinder} = 2\pi r l$$

$$= 2 * \left(\frac{22}{7}\right) * 14 * 2\sqrt{85}$$

$$= 88\sqrt{85}$$

**Question 62**

The diagonal of a rectangle field is 15 m and its area is  $108 \text{ m}^2$ . What is the cost of fencing the field at ₹50.50 per m?

A ₹2121

B ₹2020

C ₹1919

D ₹2222

Answer: A

**Explanation:**

Area of a rectangle =  $l * b$

$$lb = 108$$

Diagonal of a rectangle =  $\sqrt{l^2 + b^2}$

$$225 = l^2 + b^2$$

$$225 + 216 = l^2 + b^2 + 2lb$$

$$441 = (l + b)^2$$

$$l + b = 21$$

$$l + \frac{108}{l} = 21$$

$$l^2 + 108 = 21l$$

$$l^2 - 21l + 108 = 0$$

$$l^2 - 12l - 9l + 108 = 0$$

$$l(l - 12) - 9(l - 12) = 0$$

$$(l - 9)(l - 12) = 0$$

$$l = 9 \text{ cm } b = 12 \text{ cm}$$

Perimeter of rectangle =  $2(l + b)$

$$= 42 \text{ cm}$$

Cost of fencing =  $42 * 50.5$

$$= \text{Rs } 2121$$

**Question 63**

If  $x$  is subtracted from each other of 17, 14, 22 and 18 then these numbers are in proportion, in this order. What is the mean proportion between  $9x$  and  $5x$ ?

A  $3\sqrt{5}$

B 6

C 7

D  $6\sqrt{5}$

Answer: D

**Explanation:**

17-x, 14-x, 22-x and 18-x are the four numbers

Given numbers are in proportion and so

$$(17-x)(18-x) = (14-x)(22-x)$$

$$306 - 17x - 18x + x^2 = 308 - 22x - 14x + x^2$$

$$306 - 35x = 308 - 36x$$

$$x = 2$$

So the numbers are 18 and 10

let the mean proportion be y

$$18 : y :: y : 10$$

$$y * y = 180$$

$$y = 6\sqrt{5}$$

**Question 64**

The average of 15 numbers is 56. The average of first 8 numbers is 54.4 and that of last 8 numbers is 56.6. If 8<sup>th</sup> number is excluded then what is the average of the remaining numbers? (correct to one decimal place)

A 56.6

B 53.8

C 53.6

D 56.2

Answer: A

**Explanation:**

$$\text{Sum of 15 numbers} = 15 * 56 = 840$$

$$\text{Sum of first 8 numbers} = 54.4 * 8 = 435.2$$

$$\text{Sum of last 8 numbers} = 56.6 * 8 = 452.8$$

$$\text{Sum of both} = 435.2 + 452.8 = 888$$

$$\text{The eight number in the series} = 888 - 840$$

$$= 48$$

$$\text{Sum of the other 7 numbers} = 840 - 48$$

$$= 792$$

$$\text{Average of 14 numbers} = 792 / 14$$

$$= 56.6$$

**Question 65**

The value of:

$$8 \text{ of } 5 \div 15 + 7 \text{ of } 12 \div 40 \text{ of } 5 - 33 \div 30 \text{ of } 3$$

A  $10\frac{1}{4}$

B  $2\frac{1}{4}$

C  $2\frac{1}{2}$

D  $3\frac{1}{3}$

Answer: A

**Explanation:**

$$8 \text{ of } 5 \div 15 + 7 \text{ of } 12 \div 40 \text{ of } 5 - 33 \div 30 \text{ of } 3$$

$$= 10 \div 5 + 12 \div 100 - 33 \div 45$$

$$= 4 + 25 - 33 \div 45$$

$$= 4 + 25 - 3 \div 45$$

$$= 4 + 25 - 15$$

$$= 10.25$$

#### Question 66

Two trains start at the same time, P from A to B and Q from B to A. If they arrive at B and A, respectively,  $\frac{1}{2}$  hours and 10 hours after they passed each other, and the speed of P is 90 km/hr, then the speed of Q in km/hr is?

A 80

B 75

C 45

D 60

Answer: C

#### Explanation:

Let the distance between A and B be 'd'

speed of Q be q

't' be the time taken for them to meet

$$d/(90+q) = t$$

$$d/(t+10) = q$$

$$d/(t+(5/2)) = 90$$

$$d = 90t + 225$$

$$d = 90t + qt$$

$$d = qt + 10q$$

$$qt = 225$$

$$q = 9t$$

$$t^2 = 25$$

$$t = 5 \text{ hours}$$

$$q = 9 \times 5 = 45 \text{ km/hr}$$

#### Question 67

What is the average of the mean, median and range of the data:

34, 41, 6, 13, 27, 20, 48, and 55 ?

A  $30\frac{1}{2}$

B  $30\frac{1}{3}$

C  $36\frac{2}{3}$

D  $36\frac{1}{3}$

Answer: C

Explanation:

The given observations in ascending order is 6, 13, 20, 27, 34, 41, 48 and 55

Range = Maximum value - Minimum value

$$= 55 - 6 = 49$$

Median is the middle most value i.e.  $(27 + 34) / 2 = 30.5$

Mean = average = (sum) / 8

$$= 244 / 8$$

$$= 30.5$$

Average of three value =  $(61 + 49) / 3$

$$= 110 / 3$$

$$= 36\frac{2}{3}$$

#### Question 68

Working together A, B and C can complete a piece of work in 24 days. After working together for 4 days, C left the work. A and B completed the remaining work in 30 days. The number of days taken by C alone to complete the same work is:

A 60

B 54

C 72

D 90

Answer: C

Explanation:

Let the total work be 48 units

Number of units of work they together do on each day =  $48 / 24 = 2$  units

In 4 days they together do  $4 * 2 = 8$  units of work

So  $48 - 8 = 40$  units is left

This is done by A and B in 30 days and so their combined efficiency =  $40 / 30$

$$= 4 / 3$$

In each day C can do  $2 - (4 / 3) = 2 / 3$  units

So 48 units is done in  $48 * 3 / 2 = 72$  days

#### Question 69

A sum of ₹ x is divided among A, B and C such that the ratio of shares of A and B is 3 : 4 and that of B and C is 5 : 6. If C receives ₹1440 more than what A receives, then the value of x is?

A 9280

B 9000

C 9440

D 9600

Answer: C

Explanation:

$$A : B = 3 : 4$$

$$A : B = 15 : 20$$

$$B : C = 5 : 6$$

$$B : C = 20 : 24$$

$$A : B : C = 15 : 20 : 24$$

$$\text{sum} = 15a + 20a + 24a = 59a$$

$$24a - 15a = 1440$$

$$9a = 1440$$

$$a = 160$$

$$\text{Total} = 59 * 160$$

$$= 9440$$

### Question 70

Let  $x$  be the least number which when divided by 10, 12, 14 and 16 leaves the remainders 2, 4, 6 and 8, respectively, but  $x$  is divisible by 17. When  $x$  is divided by 52, the quotient is:

- A 96
- B 92
- C 95
- D 99

Answer: A

#### Explanation:

The given number leaves the same negative remainder when divided by 2, 4, 6 and 8 i.e.  $2-10, 4-12, 6-14, 8-16 = -8$

So the given number will be in the form of  $LCM(10, 12, 14, 16)k - 8$

$= 1680k - 8$

for  $k=1, 2$  the number obtained is not divisible by 17

for  $k=3$  we have  $1680 \times 3 - 8$

$= 5040 - 8$

$= 5032$

Required number is  $5032/52 = 96.76$

### Question 71

Two alloys A and B contain copper and zinc in the ratio 7 : 2 and 5 : 3 respectively. How many kg of A and B must be melted in order to get an alloy of 44 kg containing copper and Zinc in the ratio 3 : 1?

- A 24 kg, 20 kg
- B 30 kg, 14 kg
- C 28 kg, 16 kg
- D 36 kg, 8 kg

Answer: D

#### Explanation:

Copper in the A alloy =  $7/9$

Copper in the B alloy =  $5/8$

Copper in the resultant mixture =  $3/4$

let the ratio in which they are mixed is  $x$

By using the principle of allegation we have

$$x = \frac{(3/4) - (5/8)}{(7/9) - (3/4)}$$

$$x = \frac{(1/8)}{(1/36)}$$

$$x = 9:2$$

Given 44 kg of mixture and so zinc copper present is  $(3/4) \times 44 = 33$  kg

$$\text{Therefore } (7/9) \times 9y + (5/8) \times 2y = 33$$

$$7y + (5y/4) = 33$$

$$33y/4 = 33$$

$$y = 4$$

$$9y = 36 \text{ kgs and } 2y = 8 \text{ kgs}$$

### Question 72

Study the following table, (which shows the number of units of an item manufactured and sold by 5 companies) and answer the question.

Company	No. of Units (in thousand)	
	Manufactured	Sold
A	42	30
B	45	32
C	36	26
D	51	36
E	54	40

The ratio of the number of units manufactured by companies C and E together and the number of units sold by A and D together is?

A 15 : 11

B 17 : 15

C 24 : 13

D 15 : 13

Answer: A

Explanation:

total number of units manufactured by C and E together is  $36+54=90$  units

total number of units sold by A and D together is  $30+36=66$  units

ratio= $90/66$

=15:11

### Question 73

A person bought 80 m cloth at ₹110 per m and sold 75% of it at a gain of 6%. At what gain percent did he sell the remaining cloth, if he gained 10% on his outlay?

A 26%

B 22%

C 28%

D 24%

Answer: B

Explanation:

Given that 1m cost= Rs 110

Total cost price= $110*80$

=8800

Total profit =10%

Therefore total SP=1.1 CP

=1.1 \*8800

=Rs 9680

75% of cloth= $80*(3/4)$

=60m

It is sold at 6% profit so CP of 60m cloth= $60*110=6600$

SP of 60m cloth=1.06\*6600

=Rs 6996



SP of remaining cloth= 9680-6996  
 =Rs 2684  
 CP of 20m cloth=20\*110=2200  
 Profit percent= $\frac{(2684-2200)}{2200} \times 100$   
 =484/22  
 =22%

**Question 74**

Study the following table, (which shows the number of units of an item manufactured and sold by 5 companies) and answer the question.

Company	No. of Units (in thousand)	
	Manufactured	Sold
A	42	30
B	45	32
C	36	26
D	51	36
E	54	40

What percent of total number of units sold by companies A, B and D is equal to the number of units manufactured by company C? (correct to one decimal place)

- A 33.3
- B 35.6
- C 40.9
- D 36.7

Answer: D

**Explanation:**  
 Total units sold by A,B and D=30+32+26  
 =98 units  
 Total units manufactured by C=36  
 Therefore  $98=100\%$   
 $36=\frac{36 \times 100}{98}$   
 =3600/98  
 =36.7

**Question 75**

The value of  $[9.5 \div (0.6 \times 0.75 + 0.8 \div 16) + 0.75] \div (0.03 \div 0.6 \text{ of } 0.01)$  lies between:

- A 2 and 3
- B 1 and 2
- C 0 and 1
- D 3 and 4

Answer: D

**Explanation:**  
 $= [9.5 \div (0.6 \times 0.75 + 0.8 \div 16) + 0.75] \div (0.03 \div 0.6 \text{ of } 0.01)$   
 $= [9.5 \div (0.6 \times 0.75 + 0.05) + 0.75] \div (5)$   
 $= [9.5 \div (0.45 + 0.05) + 0.75] \div (5)$   
 $= [19 + 0.75] \div (5)$   
 $= (19.75/5)$

## English

### Instructions

For the following questions answer them individually

### Question 76

Select the most appropriate word to fill in the blank.

A successful entertainer.....the right mood before beginning a joke or story.

A spreads

B engages

C creates

D enjoys

Answer: C

### Instructions

In the following passage some words have been deleted. Fill in the blanks with the help of the alternatives given.

Passage:

After my job was over, I went to Mumbai and returned after (1)..... six months. I had barely taken (2)..... my clothes when I saw Ratan standing (3)..... a new baby. He was (4)..... with joy. Even my daughter could not have (5)..... such joy on finding her younger brother after several years.

### Question 77

Select the most appropriate option that will fill in the blank number 1.

A nearly

B rarely

C hardly

D merely

Answer: A

### Question 78

Select the most appropriate option that will fill in the blank number 2.

A away

B over

C of

D off

Answer: D

Question 79

Select the most appropriate option that will fill in the blank number 3.

- A with
- B by
- C near
- D along

Answer: A

Question 80

Select the most appropriate option that will fill in the blank number 4.

- A bursting
- B singing
- C dancing
- D skipping

Answer: A

Question 81

Select the most appropriate option that will fill in the blank number 5.

- A felt
- B advised
- C thought
- D understood

Answer: A

Instructions

For the following questions answer them individually

Question 82

Select the most appropriate word to fill in the blank.

The soldiers were instructed to..... restraint and handle the situation peacefully.

- A exercise
- B prevent
- C resist
- D control

Answer: A

**Question 83**

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 GATT Treaty, it is explained, would allow subsidised to the extent of 10% of the market price.

- A would allow supply
- B would allow support
- C would allow subsidy
- D No improvement

Answer: C

**Question 84**

From the given options, identify the segment in the sentence which contains the grammatical error.

The speech he made on his visit to our college concerning our society's needs have bothered me greatly.

- A The speech
- B have bothered
- C on his visit
- D concerning our

Answer: B

**Question 85**

From the given options, identify the segment in the sentence which contains the grammatical error.

He want to finish the assignment in the last week but in fact he could not.

- A he could not
- B in the last week
- C want to finish
- D the assignment

Answer: C

**Question 86**

Select the correctly spelt word.

- A Equivalent
- B Equivelent
- C Equivalant
- D Equivalent

Answer: A

**Question 87**

From the given options, identify the segment in the sentence which contains the grammatical error.  
Every one of the survivor of the capsized ship has told the same story.

- A the same story
- B Every one
- C capsized ship
- D of the survivor

Answer: D

**Question 88**

Select the word which means the same as the group of words given.  
One who knows everything

- A Omniscient
- B Omnipotent
- C Omnipatient
- D Omnipresent

Answer: A

**Question 89**

Select the correctly spelt word.

- A Throughfare
- B Thoroghfare
- C Thoroughfare
- D Thoroufare

Answer: C

**Question 90**

Select the option that means the same as the given idiom.  
To sound a red alert.

- A To wave a red flag
- B To press a red button
- C To raise an alarm
- D To hear an alarm

Answer: C

Question 91

Select the synonym of the given word.

GALLANT

- A Wealthy
- B Violent
- C Courageous
- D Wild

Answer: C

Question 92

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.

Dancing around a totem pole was one of the favourite pastimes of the American Indians.

- A was one of the favourite pastime
- B are the favourite pastimes
- C No improvement
- D were one of the favourite pastimes

Answer: C

Question 93

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.

Operation Flood was started with the primary objective for linking rural producers with urban consumers.

- A was started with the primary objectives of
- B No improvement
- C was started with primary objective
- D was started with the primary objective of

Answer: D

Question 94

Select the option that means the same as the given idiom.

In the good books

- A To be in favour of
- B To accompany good people
- C To collect good books
- D To do favourable things

Answer: A

**Question 95**

Select the word which means the same as the group of words given.  
A city which is multicultural

- A Metro
- B Cosmopolitan
- C Urban
- D Global

Answer: B

**Question 96**

Select the antonym of the given word.  
HOSTILE

- A Friendly
- B Optimistic
- C Negative
- D Serene

Answer: A

**Question 97**

Select the most appropriate option to fill in the blank.  
Invite everyone in the group to..... us for a weekend party.

- A join
- B join together
- C join them
- D join each other

Answer: A

**Question 98**

Select the most appropriate option to fill in the blank.  
If you listened carefully, you .....

- A would understand
- B will understand
- C would have understood
- D understand

Answer: A

Question 99

Select the antonym of the given word.

DUBIOUS

A Docile

B Certain

C Doubtful

D Faithful

Answer: B

Question 100

Select the synonym of the given word.

IMPAIR

A Improve

B Combine

C Introduce

D Weaken

Answer: D

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