



SSC CHSL 8 March 2018 Morning Shift

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Instructions

For the following questions answer them individually

Question 1

Calculate the value of $0.77777+0.7777+0.777+0.77+0.7+0.07$

- A 3.86274
- B 3.80247
- C 3.85274
- D 3.87247

Answer: D

Explanation:

Expression : $0.77777+0.7777+0.777+0.77+0.7+0.07$

= 3.87247

=> Ans - (D)

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Question 2

A crate of egg holds one rotten egg out of every 25 egg in it. If 5 out of 8 rotten eggs are unusable and there are total 10 unusable eggs in the crate, then calculate the number of eggs in the crate.

- A 380
- B 400
- C 420
- D 440

Answer: B

Explanation:

Number of unusable eggs = 10

Number of rotten eggs for 5 unusable eggs = 8

=> Number of rotten eggs for 10 unusable eggs = $\frac{8}{5} \times 10 = 16$

Ratio of rotten eggs to total eggs = 1 : 25

=> Total number of eggs in the crate = $\frac{25}{1} \times 16 = 400$

=> Ans - (B)

Question 3

What is the area (in square units) of the figure enclosed by the x-axis, the y-axis and the line $x + 2y = 6$?

- A 3
- B 6
- C 9

D 12

Answer: C

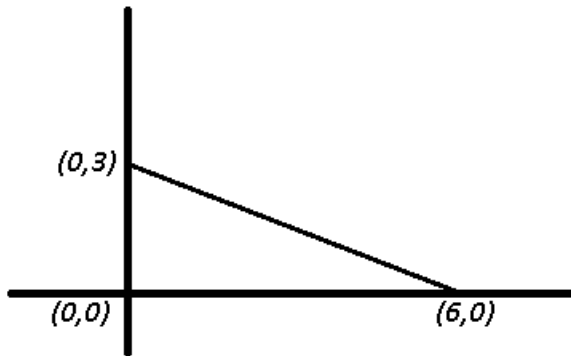
Explanation:

Solving the equation $x + 2y = 6$ by putting $x = 0$, $\Rightarrow 2y = 6$

$\Rightarrow y = 3$

Similarly, by putting $y = 0$, $\Rightarrow x = 6$

Thus, plotting graph of points : $(0, 3)$ and $(6, 0)$



Thus, area = $\frac{1}{2} \times 3 \times 6 = 9$ sq.units

\Rightarrow Ans - (C)

Question 4

What is the number of decimal places in a cube root of a number having 27 decimal places ?

A 3

B 6

C 9

D 27

Answer: C

Explanation:

Let the number be N_1 which consists of 27 decimal places.

Now, $N_1 = 10^{27}$

Cube root of this number will be = $\sqrt[3]{10^{27}}$

= $10^9 = 10^9$

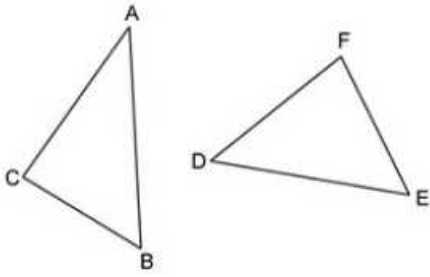
Here, x is cube root of n , and will have 9 decimal places.

\Rightarrow Ans - (C)

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Question 5

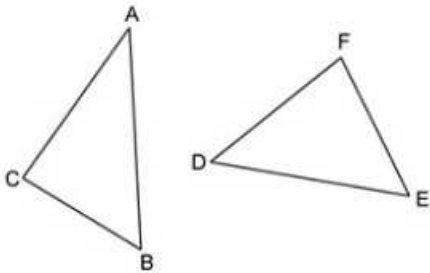
Which of the following condition is sufficient to state that the triangle ABC and DEF are similar?



- A $\angle A = \angle D$ and $\angle C = \angle F$
- B $\angle A > \angle D$ and $\angle B = \angle E$
- C $\angle B = \angle E$ and $\angle C < \angle F$
- D All option are correct

Answer: A

Explanation:



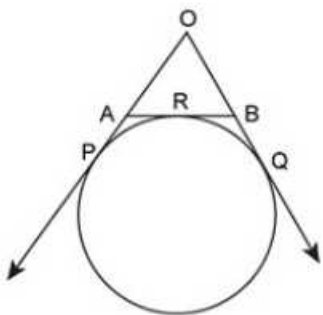
For $\triangle ABC \sim \triangle DEF$, we need to have atleast 2 pairs of corresponding angles equal.

Thus, according to the first option, we have: $\angle A = \angle D$ and $\angle C = \angle F$

=> Ans - (A)

Question 6

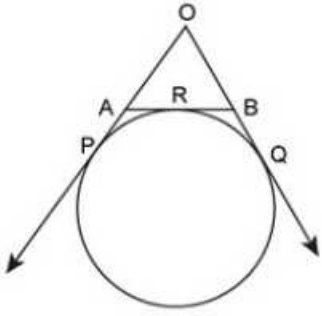
Which of the following options is CORRECT about the figure shown below ?



- A $OA - AR = OB + BR$
- B $OA + AR = OB - BR$
- C $OA + AR = OB + BR$
- D None of these

Answer: C

Explanation:



If two tangents are drawn to a circle from one external point, then their tangent segments (lines joining the external point and the points of tangency) are equal.

Thus, $AP = AR$ and $BQ = BR$ -----(i)

Also, $OP = OQ$

$\Rightarrow OA + AP = OB + BQ$

Substituting value from equation (i), we get :

$\Rightarrow OA + AR = OB + BR$

\Rightarrow Ans - (C)

Question 7

If the edge of a cube is increased by 10%, then what will be the percentage increase in its volume ?

- A 30
- B 31.3
- C 136.1
- D 33.1

Answer: D

Explanation:

Let edge of cube initially = $a = 10$ cm

Volume = $V = a^3 = (10)^3 = 1000 \text{ cm}^3$

New edge after 10% increase = $a' = 10 + \left(\frac{10}{100} \times 10\right) = 11$ cm

\Rightarrow New volume = $V' = (11)^3 = 1331 \text{ cm}^3$

\therefore % increase in volume = $\frac{(1331-1000)}{1000} \times 100$

$= \frac{331}{10} = 33.1\%$

\Rightarrow Ans - (D)

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Question 8

Rs 18200 is divided among X, Y and Z in the ratio of 1/3: 1/4: 1/2. What is the share (in Rs) of X ?

- A 7000
- B 4400
- C 4200

D 5600

Answer: D

Explanation:

Total amount = Rs. 18,200

Ratio of amount with X : Y : Z = $\frac{1}{3} : \frac{1}{4} : \frac{1}{2}$

=> Share of X = $\left(\frac{\frac{1}{3}}{\frac{1}{3} + \frac{1}{4} + \frac{1}{2}}\right) \times 18,200$

= $\left(\frac{1}{3} \div \frac{4+3+6}{12}\right) \times 18,200$

= $\frac{1}{3} \times \frac{12}{13} \times 18,200$

= $4 \times 1400 = \text{Rs. } 5600$

=> Ans - (D)

Question 9

In what ratio must a mixture of 20% milk strength be mixed with that of 60% milk strength so as to get a new mixture of 25% milk strength ?

A 7: 1

B 4: 1

C 5: 2

D 9: 2

Answer: A

Explanation:

Let the ratio in which 20% milk be mixed with that of 60% milk = $x : y$

According to ques,

=> $20x + 60y = 25(x + y)$

=> $20x + 60y = 25x + 25y$

=> $25x - 20x = 60y - 25y$

=> $5x = 35y$

=> $\frac{x}{y} = \frac{35}{5} = 7$

∴ Required ratio = 7 : 1

=> Ans - (A)

Question 10

What is the average of first 39 even numbers ?

A 39

B 40

C 20

D 68

Answer: B

Explanation:

Sum of first n even numbers = $n(n+1)$ and sum of first n odd numbers = n^2

=> Average of first n even numbers = $\frac{n(n+1)}{n} = (n+1)$

∴ Average of first 39 even numbers = $(39+1) = 40$

=> Ans - (B)

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Question 11

A sum becomes Rs 2286 in 3 years and Rs 2448 in 4 years at simple interest. What is the rate (in percentage) of interest per annum?

A 10

B 9

C 8

D 11

Answer: B

Explanation:

Let sum = Rs. $100x$ and rate of interest = $r\%$

Amount after 3 years = Rs. 2286

=> Amount under simple interest = $P + \frac{P \times R \times T}{100}$

$$\Rightarrow 100x + \frac{100x \times r \times 3}{100} = 2286$$

$$\Rightarrow 100x + 3rx = 2286$$

$$\Rightarrow x(100 + 3r) = 2286 \text{ -----(i)}$$

Similarly, after 4 years, $\Rightarrow 100x + \frac{100x \times r \times 4}{100} = 2448$

$$\Rightarrow x(100 + 4r) = 2448 \text{ -----(ii)}$$

Dividing equation (ii) by (i), we get :

$$\Rightarrow \frac{100+4r}{100+3r} = \frac{2448}{2286}$$

$$\Rightarrow 228600 + 9144r = 244800 + 7344r$$

$$\Rightarrow 9144r - 7344r = 100(2448 - 2286)$$

$$\Rightarrow 1800r = 100 \times 162$$

$$\Rightarrow r = \frac{162}{18} = 9\%$$

=> Ans - (B)

Question 12

Selling price of a fan is Rs 4644. If profit percentage is 29%, then what is the cost price (in Rs) of fan?

A 5900

B 3500

C 3800

D 3600

Answer: D

Explanation:

Selling price = Rs. 4644

Profit % = 29%

$$\Rightarrow \text{Cost price} = \frac{4644}{100+29} \times 100$$

$$= 36 \times 100 = \text{Rs. } 3600$$

\Rightarrow Ans - (D)

Question 13

The marked price of a helmet is 30% more than its cost price. If the helmet is sold for Rs 744 after a discount of Rs 36, then what will be the profit percentage?

A 24

B 18

C 21

D 27

Answer: A

Explanation:

Let cost price = Rs. $100x$

$$\Rightarrow \text{Marked price} = 100x + \left(\frac{30}{100} \times 100x\right) = \text{Rs. } 130x$$

Selling price = Rs. 744

$$\Rightarrow \text{Discount amount} = 130x - 744 = 36$$

$$\Rightarrow 130x = 36 + 744 = 780$$

$$\Rightarrow x = \frac{780}{130} = 6$$

Thus, cost price = $100 \times 6 = \text{Rs. } 600$

$$\therefore \text{Profit \%} = \frac{(744-600)}{600} \times 100$$

$$= \frac{144}{600} \times 100 = 24\%$$

\Rightarrow Ans - (A)

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Question 14

Which of the following statement (s) is/are TRUE?

I. $4\sqrt{3} > 3\sqrt{4}$

II. $8\sqrt{2} > 2\sqrt{8}$

A Only I

B Only II

C Neither I nor II

D Both I and II

Answer: D

Explanation:

We know that $\sqrt{3} = 1.7$ and $\sqrt{4} = 2$.

$\sqrt{2} = 1.4$ and $\sqrt{8} = 2.8$

I) $4\sqrt{3} = 4 \times 1.7 \approx 6.8$

and $3\sqrt{4} = 3 \times 2 = 6$

$\Rightarrow 4\sqrt{3} > 3\sqrt{4}$

II) $8\sqrt{2} = 8 \times 1.4 \approx 11.2$

and $2\sqrt{8} = 2 \times 2.8 = 5.6$

$\Rightarrow 8\sqrt{2} > 2\sqrt{8}$

\therefore Both I and II are true.

\Rightarrow Ans - (D)

Question 15

S, T and U together can complete a work in 30 days. If the ratio of efficiency of S, T and U is 20: 15: 12 respectively, then in how many days U alone can complete the same work?

A 195/2

B 235/2

C 225/2

D 215/2

Answer: B

Explanation:

Let efficiencies of S, T and U be $20x$, $15x$ and $12x$ units/day respectively.

S, T and U together can complete the work in 30 days

\Rightarrow Total work to be done = $30 \times (20x + 15x + 12x) = 1410x$ units

\therefore Time taken by U alone to complete the work = $\frac{1410x}{12x} = \frac{235}{2}$ days

\Rightarrow Ans - (B)

Question 16

A train is moving at the speed of 90 km/hr. How many seconds it will take to cover a distance of 2275 meter?

A 96

B 91

C 86

D 93

Answer: B

Explanation:

Speed of train = 90 km/hr = $(90 \times \frac{5}{18}) = 25$ m/s

Time taken to cover 2275 m = distance/speed

= $\frac{2275}{25} = 91$ seconds

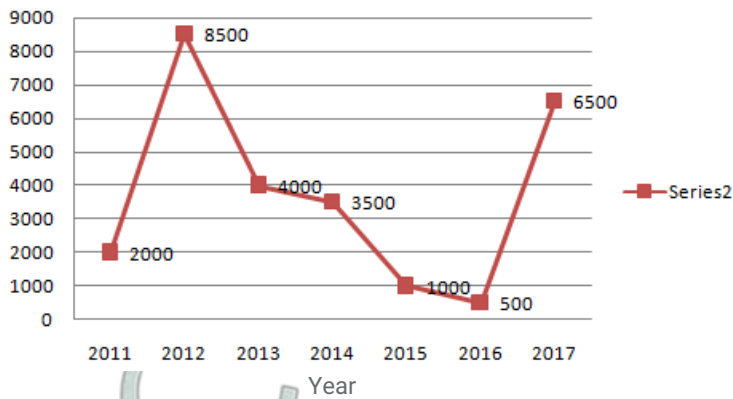
\Rightarrow Ans - (B)

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Instructions

The line graph shows the number of deaths due to rail accidents in a certain state. Study the diagram and answer the following questions.

No. of deaths



Question 17

In which year were the number of deaths greater than that of the previous year ?

- A 2013
- B 2012
- C 2014
- D 2015

Answer: B

Explanation:

In **2012** and **2017**, the number of deaths were greater than that of the previous year.

=> Ans - (B)

Question 18

What was the difference in the number of deaths between the years 2012 and 2015 ?

- A 6500
- B 8500
- C 7500
- D 5500

Answer: C

Explanation:

Number of deaths in 2012 = 8500

Number of deaths in 2015 = 1000

=> Required difference = $8500 - 1000 = 7500$

=> Ans - (C)

Question 19

The number of deaths in 2017 were greater than that in 2013 by _____.

- A 50%
- B 35%
- C 62.5%
- D 37.5%

Answer: C

Explanation:

Number of deaths in 2017 = 6500

Number of deaths in 2013 = 4000

$$\Rightarrow \text{Required \%} = \frac{(6500-4000)}{4000} \times 100$$

$$= \frac{2500}{4000} = 62.5\%$$

\Rightarrow Ans - (C)

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Question 20

If on an average Rs 5 lakhs was paid as insurance for each death due to a rail accident, then how much insurance was paid (in Rs crore) in the year 2014 ?

- A 225
- B 275
- C 125
- D 175

Answer: D

Explanation:

Number of deaths in 2014 = 3500

Average insurance fee per death = Rs. 5 lakhs

$$\Rightarrow \text{Insurance paid (in Rs crore) in the year 2014} = 3500 \times 0.05 = 175$$

\Rightarrow Ans - (D)

Instructions

For the following questions answer them individually

Question 21

What must be the length (in cm) of the diagonal of a rectangle if its area and breadth are 120 cm² and 8 cm respectively ?

- A 34
- B 17
- C 15
- D 30

Answer: B

Explanation:

Let length of rectangle = l cm and breadth, $b = 8$ cm

$$\Rightarrow \text{Area} = 8l = 120$$

$$\Rightarrow l = \frac{120}{8} = 15 \text{ cm}$$

$$\Rightarrow \text{Diagonal, } d = \sqrt{l^2 + b^2}$$

$$\Rightarrow d = \sqrt{(15)^2 + (8)^2}$$

$$\Rightarrow d = \sqrt{225 + 64} = \sqrt{289}$$

$$\Rightarrow d = 17 \text{ cm}$$

\Rightarrow Ans - (B)

Question 22

If the measure of the interior angle of a regular polygon is 90° greater than the measure of its exterior angle, then how many sides does it have ?

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

Answer: A

Explanation:

Let the number of sides of the polygon = n

$$\text{Sum of all interior angles} = (n - 2) \times 180^\circ$$

$$\text{Sum of all exterior angles} = 360^\circ$$

According to ques,

$$\Rightarrow \frac{(n-2) \times 180^\circ}{n} - \frac{360^\circ}{n} = 90^\circ$$

$$\Rightarrow 180n - 360 - 360 = 90n$$

$$\Rightarrow 180n - 90n = 720$$

$$\Rightarrow n = \frac{720}{90} = 8$$

\Rightarrow Ans - (A)

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Question 23

Find the volume (in cmc) of a hemisphere of diameter 21 cm.

- A 2235.5
- B 2425.5
- C 2040
- D 1860

Answer: B

Explanation:

Diameter of hemisphere = 21 cm

$$\begin{aligned} \text{Volume of hemisphere} &= \frac{2}{3} \times \pi r^3 \\ &= \frac{2}{3} \times \frac{22}{7} \times \left(\frac{21}{2}\right)^3 \\ &= \frac{11 \times 441}{2} = 2425.5 \text{ cm}^3 \end{aligned}$$

=> Ans - (B)

Question 24

What is the value of $(\operatorname{cosec}30^\circ - 1/\sqrt{3})$?

A $(2\sqrt{3}-1)/\sqrt{3}$

B $(\sqrt{3}-4)/2\sqrt{3}$

C $-1/\sqrt{3}$

D $2/\sqrt{3}$

Answer: A

Explanation:

$$\begin{aligned} \text{Expression : } &(\operatorname{cosec}30^\circ - \frac{1}{\sqrt{3}}) \\ &= (2 - \frac{1}{\sqrt{3}}) \\ &= \frac{2\sqrt{3}-1}{\sqrt{3}} \end{aligned}$$

=> Ans - (A)

Question 25

In $\triangle XYZ$ measure of angle Y is 90° . If $\operatorname{cosec}X = 13/12$, and $XY = 1\text{cm}$, then what is the length (in cm) of side YZ?

A 2.6

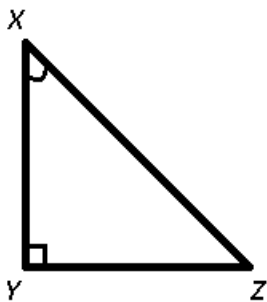
B 1.5

C 2.4

D 2

Answer: C

Explanation:



Given : $\operatorname{cosec} X = \frac{13}{12}$

Also, $\operatorname{cosec} X = \frac{XZ}{YZ} = \frac{13}{12}$

Let $XZ = 13x$ cm and $YZ = 12x$ cm

Thus, in $\triangle XYZ$, $\Rightarrow (XY)^2 = (XZ)^2 - (YZ)^2$

$\Rightarrow (XY)^2 = (13x)^2 - (12x)^2$

$$\Rightarrow (XY)^2 = 169x^2 - 144x^2 = 25x^2$$

$$\Rightarrow XY = \sqrt{25x^2} = 5x \text{ cm}$$

According to ques, $\Rightarrow 5x = 1$

$$\Rightarrow x = \frac{1}{5}$$

$$\therefore YZ = 12 \times \frac{1}{5} = 2.4 \text{ cm}$$

\Rightarrow Ans - (C)

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Reasoning

Instructions

For the following questions answer them individually

Question 26

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

Book: Pages:: ? : ?

A Writer: Write

B Pen: Write

C Car: Tyre

D Tyre : Round

Answer: C

Explanation:

Expression = Book: Pages:: ? : ?

The first is incomplete without second, i.e. book is a collection of pages, similarly a car is nothing without tyres.

\Rightarrow Ans - (C)

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Question 27

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

553: 551:: 447: ?

A 443

B 445

C 441

D 451

Answer: B

Explanation:

Expression = 553: 551:: 447: ?

The pattern followed is $= x : (x - 2)$

Eg :- 553 : 553 - 2 = 553 : 551

Similarly, 447 - 2 = 445

=> Ans - (B)

Question 28

In the following question, select the related letter pair from the given alternatives.

FOM : CLJ :: ? : ?

A RQS : POQ

B RAX : OXU

C JKN : MNQ

D ACD : CEF

Answer: B

Explanation:

Expression = FOM : CLJ :: ? : ?

The pattern followed is :

| | | |
|------|------|------|
| F | O | M |
| (-3) | (-3) | (-3) |
| C | L | J |

Similar pattern is observed only in :

| | | |
|------|------|------|
| R | A | X |
| (-3) | (+3) | (+3) |
| O | X | U |

=> Ans - (B)

Question 29

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

A Zinc - Metal

B Aluminium - Metal

C Crocodile - Water

D Gold - Metal

Answer: C

Explanation:

Zinc, aluminium and gold are metals while crocodile is a reptile, hence it is the odd one out.

=> Ans - (C)

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Question 30

In the following question, four number pairs are given. The number on left side of (-) is related to the number of the right side of (-) with some Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

A 9 - 81

B 8 - 64

C 6 - 36

D 7 - 47

Answer: D

Explanation:

The second number is the square of the first number.

$$(9)^2 = 81$$

$$(8)^2 = 64$$

$$(6)^2 = 36$$

$$(7)^2 = 49 \neq 47$$

=> Ans - (D)

Question 31

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

A BE

B SU

C AD

D OR

Answer: B

Explanation:

(A) : B (+3 letters) = E

(B) : S (+2 letters) = U

(C) : A (+3 letters) = D

(D) : O (+3 letters) = R

=> Ans - (B)

Question 32

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

1. Scrape

2. Scramble

3. Scream

4. Scornful

5. Scour

A 12354

B 35421

C 51243

D 45213

Answer: D

Explanation:

As per the order of dictionary :

= Scornful -> Scour -> Scramble -> Scrape -> Scream

≡ 45213

=> Ans - (D)

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Question 33

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

9, 13, 18, 24, 31, ?

- A 39
- B 35
- C 40
- D 37

Answer: A

Explanation:

Consecutive integers are added.

$$9 + 4 = 13$$

$$13 + 5 = 18$$

$$18 + 6 = 24$$

$$24 + 7 = 31$$

$$31 + 8 = 39$$

=> Ans - (A)

Question 34

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

XPK, VNJ, TLH, RJE, ?

- A PHB
- B OIA
- C OIB
- D PHA

Answer: D

Explanation:

Series : XPK, VNJ, TLH, RJE, ?

The pattern followed in each letter of the terms is :

1st letter : X (-2 letters) = V (-2 letters) = T (-2 letters) = R (-2 letters) = P

2nd letter : P (-2 letters) = N (-2 letters) = L (-2 letters) = J (-2 letters) = H

3rd letter : K (-1 letter) = J (-2 letters) = H (-3 letters) = E (-4 letters) = A

Thus, missing term = **PHA**

=> Ans - (D)

Question 35

In a row of swimmers Manish, is 23rd from the left end. Ramesh is 11 ranks to the left of Manish. If Ramesh is 16th from right end, then how many swimmers are there in this row?

- A 28

- B 27
- C 30
- D 29

Answer: B

Explanation:

Manish's position from left end = 23rd

Ramesh is 11 ranks to the left of Manish, => Ramesh's position from left end = 23 - 11 = 12th

Also, Ramesh's position from right end = 16th

=> Number of swimmers = $(12 + 16) - 1 = 27$

=> Ans - (B)

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Question 36

From the given alternatives, select the word which CANNOT be formed using the letters of the given word. Resources

- A Source
- B Rise
- C Ours
- D Sour

Answer: B

Explanation:

The word RESOURCES does not contain any 'l', thus the term **Rise** cannot be formed.

=> Ans - (B)

Question 37

In a certain code language, "FRAME" is written as "79635" and "TOWEL" is written as "21854". How is "WORM" written in that code language?

- A 9376
- B 8193
- C 9183
- D 1593

Answer: B

Explanation:

Codes for each letters are given.

W -> 8

O -> 1

R -> 9

M -> 3

Thus, WORM : **8193**

=> Ans - (B)

Question 38

In a certain code language, '-' represents 'x', '÷' represents '+', '+' represents '÷' and 'x' represents '-'. Find out the answer to the following question.

$$12 - 6 + 4 \times 10 \div 16 = ?$$

- A 14
- B 2
- C 24
- D 5

Answer: C

Explanation:

Expression : $12 - 6 + 4 \times 10 \div 16 = ?$

$$\equiv 12 \times 6 \div 4 - 10 + 16$$

$$= (3 \times 6) + 6$$

$$= 18 + 6 = 24$$

=> Ans - (C)

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Question 39

The following equation is incorrect. Which two signs should be interchanged to correct the equation?

$$18 - 2 \div 20 + 5 \times 16 = 69$$

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

Answer: A

Explanation:

Expression : $18 - 2 \div 20 + 5 \times 16 = 69$

(A) : ÷ and -

$$\equiv 18 \div 2 - 20 + 5 \times 16 = 69$$

$$\text{L.H.S.} = \left(\frac{18}{2}\right) - 20 + (5 \times 16)$$

$$= 9 - 20 + 80 = 69 = \text{R.H.S.}$$

=> Ans - (A)

Question 40

If $-2@-4 = -8$, $-1@-8 = -8$ and $-1@6 = 6$, then find the value of $-1@7 = ?$

- A 95
- B -88
- C 82

D 7

Answer: D

Explanation:

Given : $-2@-4 = -8$, $-1@-8 = -8$ and $-1@6 = 6$

If we replace '@' with 'x' and also multiply the final result with '-1', then we will get the desired result.

Eg : $-1(-2 \times -4) = -8$

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

Similarly, $-1(-1 \times 7) = 7$

=> Ans - (D)

Question 41

Which of the following terms follows the trend of the given list? XXXXXXYY, XXXXXYXY, XXXYXXXY, XXYXXXY, XXYXXXXY,

_____.

A YXXXXXXY

B XXXXXXYY

C XYXXXXXY

D XXXXXYXY

Answer: C

Explanation:

Expression : XXXXXXYY, XXXXXYXY, XXXYXXXY, XXYXXXY, XXYXXXXY, _____.

The pattern followed is that in each term there are combinations of 6 X's and 2 Y's in which last letter is always 'Y' and the position of second Y keeps shifting one place to the left.

Thus, in the missing term, the second term will be 'Y' = XYXXXXXY

=> Ans - (C)

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Question 42

A marketing executive goes on his field work and walks 2 km North, then he turns West and walks 6 km, then he turns North and walks 7 km, and then he turns to his right and walks 6 km. Where is he now with respect to his starting position?

A 5 km North

B 9 km North

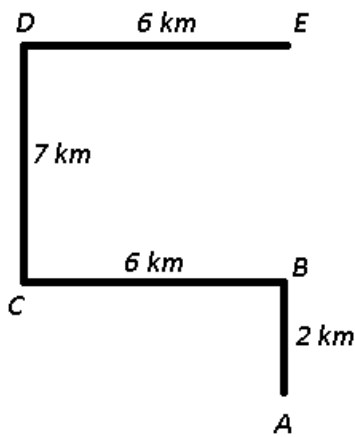
C 9 km South

D 5 km South

Answer: B

Explanation:

Let the marketing executive starts from point A and walks 2 km North, then he turns West and walks 6 km to reach C, then he turns North and walks 7 km to reach point D, and then he turns to his right and walks 6 km eastwards to finally stop at point E.



=> $AE = 2 + 7 = 9 \text{ km}$

∴ He is **9 km north** with respect to his starting position.

=> Ans - (B)

Question 43

In the question two statements are given, followed by two conclusions, I and II.

You have to consider the statements to be true even if it seems to be at variance from commonly known facts. You have to decide which of the given conclusions, if any, follows from the given statements.

Statement I: All cakes are pastries

Statement II: Some bread are cakes

Conclusion I: No pastries are bread

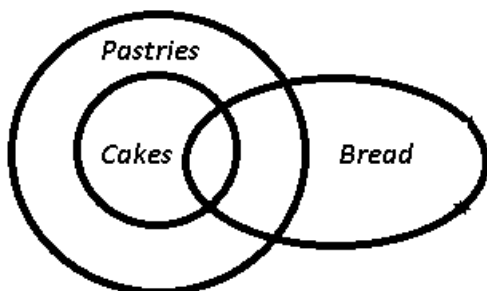
Conclusion II: Some bread are pastries

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

Answer: B

Explanation:

The venn diagram for above statements is :



Conclusion I: No pastries are bread = false

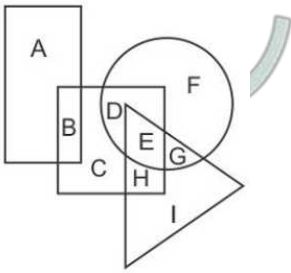
Conclusion II: Some bread are pastries = true

Thus, only conclusion II follows.

=> Ans - (B)

Question 44

In the following figure, rectangle represents Chefs, circle represents Choreographers, triangle represents Divers and square represents Americans. Which set of letters represents Americans who are either Choreographers or Divers?



A CDE

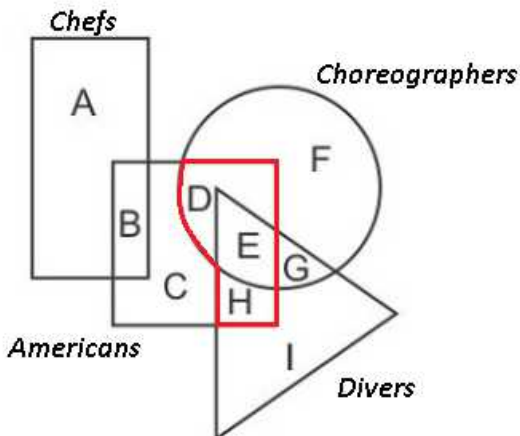
B EGI

C DEH

D BCH

Answer: C

Explanation:



Americans who are either Choreographers or Divers are represented by = DEH

=> Ans - (C)

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Question 45

A series is given with one term missing. Select the correct alternative from the given ones that will complete the series. MAN, ODR, QGV, SJZ, ?

A UMD

B VNC

C UNC

D VMD

Answer: A

Explanation:

Series : MAN, ODR, QGV, SJZ, ?

The pattern followed in each letter of the terms is :

1st letter : M (+2 letters) = O (+2 letters) = Q (+2 letters) = S (+2 letters) = U

2nd letter : A (+3 letters) = D (+3 letters) = G (+3 letters) = J (+3 letters) = M

3rd letter : N (+4 letters) = R (+4 letters) = V (+4 letters) = Z (+4 letters) = D

Thus, missing term = **UMD**

=> Ans - (A)

Question 46

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

192, 186, 180, 174, ?, 162

A 166

B 168

C 164

D 170

Answer: B

Explanation:

'6' is subtracted from all the numbers.

$$192 - 6 = 186$$

$$186 - 6 = 180$$

$$180 - 6 = 174$$

$$174 - 6 = \mathbf{168}$$

$$168 - 6 = 162$$

=> Ans - (B)

Question 47

In the following question, four groups of three numbers are given. In each group the second and third number are related to the first number by a Logic/Rule/Relation. Three are similar on basis of same Logic/Rule/Relation. Select the odd one out from the given alternatives.

A (13, 26, 39)

B (15, 30, 45)

C (17, 34, 51)

D (19, 38, 59)

Answer: D

Explanation:

The numbers are of the form : $(x, 2x, 3x)$

But in the last option, we have = $19 \times 3 = 57 \neq 59$

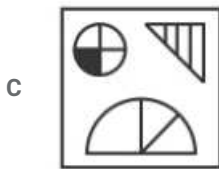
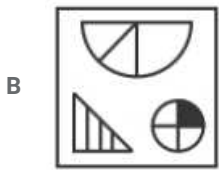
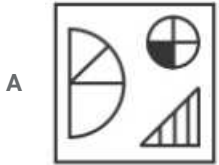
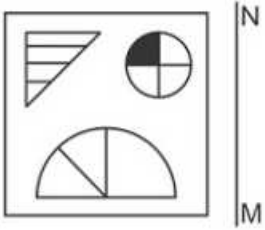
Thus, (19, 38, 59) is the odd one out.

=> Ans - (D)

Question 48

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

IMAGE



Answer: D

Explanation:

A vertical mirror is placed, so the object on the left will appear right in reverse position and vice-versa.

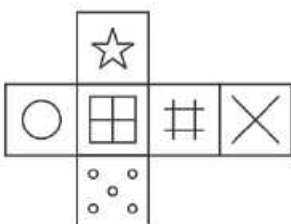
So the circle in the top right side will be reversed and will appear at top left, thus the first two options will be eliminated.

Also, in the question figure, the lines inside the triangle are horizontal which will still remain same, although the triangle will appear at right side, hence fourth option is the right image.

=> Ans - (D)

Question 49

Which of the following cube in the answer figure cannot be made based on the unfolded cube in the question figure?

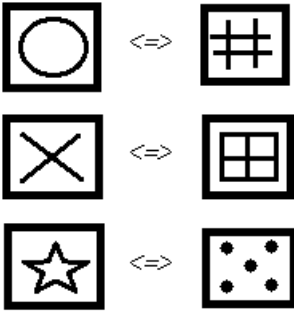




Answer: B

Explanation:

When we fold the given figure, the circle with a window sign will become the base of the cube and the side with only 'X' sign will become top, and thus they will face each other. Similarly, the sides which will face each other will be :



Since, the opposite sides cannot be adjacent in the cube, thus the cube in the second option is not possible.

=> Ans - (B)

Question 50

A word is represented by only one set of numbers as given in any one of the alternatives. The sets of numbers given in the alternatives are represented by two classes of alphabets as shown in the given two matrices. The columns and rows of Matrix-I are numbered from 0 to 4 and that of Matrix-II are numbered from 5 to 9. A letter from these matrices can be represented first by its row and next by its column, for example '1' can be represented by 21, 14 etc and V can be represented by 95, 86 etc. Similarly, you have to identify the set for the word 'LITE'.

| Matrix - I | | | | | |
|------------|---|---|---|---|---|
| | 0 | 1 | 2 | 3 | 4 |
| 0 | C | C | F | C | H |
| 1 | F | G | G | C | J |
| 2 | L | J | F | L | J |
| 3 | B | E | M | L | M |
| 4 | H | M | D | I | M |

| Matrix - II | | | | | |
|-------------|---|---|---|---|---|
| | 5 | 6 | 7 | 8 | 9 |
| 5 | T | W | W | Q | T |
| 6 | R | O | X | X | Z |
| 7 | X | S | Z | Z | T |
| 8 | Z | P | W | P | V |
| 9 | P | V | N | T | R |

A 14,97,42,78

B 22,77,22,58

C 24,79,12,56

D 20,43,55,31

Answer: D

Explanation:

(A) : 14,97,42,78 = JNDZ

(B) : 22,77,22,58 = FZFO

(C) : 24,79,12,56 = JTGW

(D) : 20,43,55,31 = LITE

=> Ans - (D)

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English

Instructions

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

Question 51

She reached to (a)/ station barely (b)/ on time. (c)/ No error (d)

- A She reached to
- B station barely
- C on time
- D No error

Answer: A

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Question 52

The goal of personal development is to learn and apply that (a)/ which enable us to attain emotional well:being, understanding and (b)/ effectiveness, and to share this knowledge with others. (c)/ No error (d)

- A The goal of personal development is to learn and apply that
- B which enable us to attain emotional well:being, understanding and
- C effectiveness, and to share this knowledge with others
- D No error

Answer: B

Instructions

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

Question 53

The dog runs _____ the street.

- A of

- B with
- C to
- D about

Answer: D

Question 54

We must join hands and stop corruption which is posing _____ in the development of India.

- A tolerance
- B radiance
- C hindrance
- D relevance

Answer: C

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Instructions

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

Question 55

Sustenance

- A Extras
- B Injury
- C Aid
- D Blockage

Answer: C

Question 56

Conscientious

- A Concentrated
- B Honest
- C Scientific
- D False

Answer: B

Instructions

In the following question, out of the given four alternatives, select the one which is opposite in meaning of the given word.

Question 57

Resolute

- A Agreeable
- B Determined
- C Constant
- D Faithful

Answer: A

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Question 58

Nefarious

- A Evil
- B Pleasing
- C Rotten
- D Infernal

Answer: B

Instructions

For the following questions answer them individually

Question 59

Rearrange the parts of the sentence in correct order.

Today India looks

P: to be on course

Q: of developed nations

R: to join the league

- A PRQ
- B QRP
- C RPQ
- D PQR

Answer: A

Question 60

A sentence has been given in Active/Passive Voice. Out of the four given alternatives, select the one which best expresses the same sentence in Passive/Active Voice.

Lily was making a fort.

- A Lily made a fort.
- B A fort was being made by Lily.
- C A fort made by Lily.
- D A fort got made by Lily.

Answer: B

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Question 61

A sentence has been given in Direct/Indirect Speech. Out of the four given alternatives, select the one which best expresses the same sentence in Indirect/Direct Speech. Sita said, "Will he listen to such a man?"

- A Sita said would we listen to such a man.
- B Sita ask if he would listen to such a man.
- C Sita said would I listen to such a man.
- D Sita asked whether he would listen to such a man.

Answer: D

Question 62

In the following question, a word has been written in four different ways out of which only one is correctly spelt. Select the correctly spelt word.

- A Irresistable
- B Irresistible
- C Iresistible
- D Iresistable

Answer: B

Instructions

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

While language as the medium _____ thought may be compared to air as the medium of the sun's influence, in other _____ it is like the skin of the body; a scurvy skin shows bad blood within, and a scurvy language shows inaccurate thought _____ a confused mind. And as a disease once _____ on the skin reacts and poisons the blood in turn as it has _____ been poisoned by the blood, so careless use of language _____ indulged reacts on the mind to make it permanently and increasingly _____, illogical, and inaccurate in its thinking.

Question 63

as the medium _____ thought may

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

Answer: B

Question 64

in other _____ it is like the skin

- A respectful
- B respectfully
- C respected
- D respects

Answer: D

Question 65

shows inaccurate thought _____ a confused mind.

- A and
- B but
- C so
- D then

Answer: A

Question 66

use of language _____ indulged reacts

- A of
- B then
- C if
- D at

Answer: C

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Question 67

increasingly _____, illogical, and

- A carelessness
- B carelessly
- C careless
- D care less

Answer: C

Instructions

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

Question 68

Be in two minds

- A Behave smart at sometime and stupid at other.
- B Unable to decide.
- C Having a split personality disorder.
- D Trying to do two things at the same time.

Answer: B

Question 69

Wet behind the ears

- A To take a bath.
- B Lacking experience or be immature.
- C To speak bad behind other's back.
- D Not able to eavesdrop despite trying hard.

Answer: B

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Instructions

In the following question, out of the four alternatives, select the alternative which is the best substitute of the words/sentence.

Question 70

Annoyed or irritated and quick to take offence at petty things

- A Appease
- B Mollify
- C Huffy
- D Soothe

Answer: C

Question 71

Decrease or fade gradually before coming to an end

- A Surge
- B Accrual
- C Peter
- D Swell

Answer: C

Instructions

In the following question, out of the four alternatives, select the alternative which will improve the bracketed part of the sentence. In case no improvement is needed, select "no improvement".

Question 72

Thus we (going) back to what might be termed as old values.

- A went
- B gone
- C was going
- D no improvement

Answer: A

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Question 73

Many novelists from the sub-continent (has provided) scathing accounts of this period.

- A have provided
- B have provide
- C have provides
- D no improvement

Answer: A

Instructions

For the following questions answer them individually

Question 74

The question below consists of a set of labelled sentences. Out of the four options given, select the most logical order of the sentences to form a coherent paragraph.

The absence of zebra

A: to the life and person

B: of citizens in most cities

C: crossings has become a threat

- A BCA
- B BAC
- C CAB
- D ACB

Answer: C

Question 75

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

- A conturion
- B contorsion
- C contortion
- D contursion

Answer: C

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General Awareness

Instructions

For the following questions answer them individually

Question 76

Disguised unemployment generally means_____.

- A Large number of people remain unemployed
- B alternative employment is NOT available
- C marginal productivity of labour is zero
- D productivity of workers is low

Answer: C

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Question 77

The State Financial Corporations have given assistance mainly to develop_____.

- A agriculture farms
- B cottage industries
- C medium and small:scale industries
- D large scale industries

Answer: C

Question 78

Which of the following Pratyahara king took the title of 'Pramana'?

- A Mihirbhoj
- B Watsaraj
- C Ram Bhoj
- D Nagabhata II

Answer: A

Question 79

Where did the telegraph line be laid first?

- A Calcutta to Agra
- B Agra to Jaipur
- C Delhi to Shimla
- D Raniganj to Calcutta

Answer: A

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Question 80

Equinox means the date when _____.

- A duration of day and night are equal
- B day is longer than the night
- C night is longer than the day
- D it is the shortest day and the shortest night of the year

Answer: A

Question 81

Which of the following countries does NOT has the international border with India?

- A Pakistan
- B Bangladesh
- C Bhutan
- D Sri Lanka

Answer: D

Question 82

Where was Guru Nanak Dev (the originator of Sikh religion) born?

- A Amritsar
- B Anandpur Sahib
- C Talwandi
- D Patna Sahib

Answer: C

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Question 83

The 48th World Economic Forum (WEF) annual meeting was held in which of the following countries?

- A Australia
- B China
- C Switzerland
- D France

Answer: C

Question 84

Who among the following is NOT one of the recipients of Major Dhayan Chand Award for the year 2017?

- A Bhupender Singh
- B Syed Shahid Hakim
- C Sumarai Tete
- D Brij Bhushan Mohanty

Answer: D

Question 85

Which of the following countries border touches with China?

- A Uzbekistan
- B Thailand
- C Vietnam
- D South Korea

Answer: B

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Question 86

Polycot is a mixture of which among the following?

- A Polyester and cotton
- B Polyester and wool
- C Rayon and cotton
- D Rayon and wool

Answer: A

Question 87

Which of the following is Inexhaustible Natural Resources?

- A Air
- B Minerals
- C Forests
- D Coal

Answer: A

Question 88

According to Dr. Ambedkar which Article is the most important article of Indian constitution?

- A Article 21
- B Article 24
- C Article 32
- D Article 256

Answer: C

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Question 89

How many seats are reserved for women in Municipality?

- A 1/5
- B 1/7
- C 1/3
- D 1/4

Answer: C

Question 90

How is the nitrogen taken up by the plants?

- I. In the form of inorganic nitrates or nitrites
- II. In the form of organic compounds
- III. Directly taken up from the atmosphere

- A Only I and II
- B Only I and III
- C Only II and III
- D All I, II and III

Answer: A

Question 91

Which of the following relation is true regarding the amounts of genetic material contributed by the father and mother to the child?

- A Father >> Mother
- B Father << Mother
- C Father = Mother
- D No relation can be determined.

Answer: C

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Question 92

In August 2017, the Government of India decided to launch a new scheme named "AGEY". This new scheme is a part of the Deen Dayal Antyodaya Yojna - National Rural Livelihood Mission (DAY:NRLM). What does 'E' stand for in 'AGEY'?

- A Enterprise
- B Energy
- C Express
- D Engineering

Answer: C

Question 93

SARAS PT1N is how many seater passenger aircraft designed and developed by CSIR:NAL?

- A 10
- B 14
- C 20
- D 25

Answer: B

Question 94

What was the debt:to:GDP ratio for the Financial Year 2016:17?

- A 60.40%
- B 49.40%
- C 50.40%
- D 55.40%

Answer: B

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Question 95

On 10 April 2017, Lok Sabha passed Constitution (123rd Amendment) Bill, 2017. The Bill seeks to give Constitutional Status to _____.

- A National Human Rights Commission
- B National Commission on Backward Classes
- C National Finance Commission
- D National Commission for Women

Answer: B

Question 96

What is the heat generated (in J) in a heating element of resistance 900Ω when a current of 0.3 A passes through it for 10 seconds?

- A 2700
- B 810
- C 405
- D 1350

Answer: B

Question 97

As the object covers unequal distances in equal intervals of time, it is said to be in _____ motion.

- A uniform
- B linear
- C non:uniform
- D equilibrium

Answer: C

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Question 98

What is the day to day condition of the atmosphere at a place with respect to the temperature, humidity, rainfall, windspeed, etc., called?

- A climate
- B ecology
- C environment
- D weather

Answer: D

Question 99

Which of the statements given below are correct?

- A) In 2017, Glenn Maxwell captained the IPL team Kings XI Punjab.
- B) Roger Federer won the Table Tennis 2017 ITTF World Tour Grand Finals Men's Singles.
- C) Bernhard Langer won the Golf 2017 Senior PGA Championship.

- A Only A
- B B and C
- C A and C
- D A and B

Answer: C

Question 100

In Microsoft Word, _____ provides information about the current document.

- A Drawing tool bar
- B View Button
- C Status bar
- D Tab stop

Answer: C

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