
Logical Reasoning

1 : Look at this series: 8,7,12,33,128... What number should come next?

a. 633.0

b. 634.0

c. 635.0

d. 637.0

2 : Look at this series: E4292, G4890, I5488,____, M6684 What comes in the blank?

a. L6087

b. L6189

c. K6086

d. L6186

3 : Look at this series: DZA, HXC, LVE,____, TRI What comes in the blank?

a. QTH

b. PTG

c. PUH

d. QUH

4 : P, Q, R, S and T sit around a table. P sits two seats to the left of R and Q sits two seats to the right of R. If S is not sitting next to Q, who is sitting between Q and S?

a. R

b. P

c. T

d. Both

5 : Look at this series: 18, 27, 45, 72, 108... What number should come next?

a. 153.0

b. 152.0

c. 154.0

d. 155.0

6 : Eight cities - A, B, C, D E, F, G and H are connected with the following two-way roads. From A to B; A to E; B to E; B to C; E to F; C to D; F to G; D to G; D to H; and G to H.

How many different ways are there to go to H starting from A without going through any city more than once?

a. 4

b. 8

c. 15

d. 9

7 : If Amy goes to a shop where, a shopkeeper gives 2 pens as a free gift on the purchase of a book, 3 pencils for every purchase of a pencil box and 1 pack of erasers for every purchase of a pen. If a person takes exactly 29 units of various products from the shop, which of the following must be true?

Which of the following must be true?

a. She has purchased at least one book

b. She has at least 2 pens with her

c. She has more than 2 pens with her

d. All of the above

8 : Three teachers P, Q, R were talking about six students A, B, C, D, E and F who wrote an examination in Physics.

P predicted that B, D, A and C would get 1st, 2nd, 3rd and 4th ranks respectively and the other two would fail.

Q predicted that E,B,A and F would get 1st, 2nd, 3rd and 4th ranks respectively and the other two would fail.

R predicted that A, D, F and E would get 1st, 2nd, 3rd and 4th ranks respectively and the other two would fail.

When the results were announced, it was found out that:

Exactly two persons got the same ranks as predicted by P, one student got the same rank as predicted by Q and one student got the same rank as predicted by R.

Exactly two students, who were predicted to pass by P, failed. Exactly, one student, who was predicted to pass by Q, failed.

Exactly one student, who was predicted to pass by R, failed.

Who is the 3rd ranker?

a. E

b. A

c. C

d. F

9 : Four boys K, L, M, and N sit in row-I facing north and they are of different professions among engineer, doctor, professor and actor. Four girls P, Q, R, and S sit in a row facing south and they are of different professions among lawyer, teacher, director, and collector. They sit in such a way

that the distance between any two adjacent persons in a row is the same such that one person in one row faces the other a person in the other row but not necessarily in the same order. Collector sits opposite the person who sits third to the right of N. Doctor and teacher sit opposite each other. The engineer sits opposite the person who sits third to the left of R. Only one person sits between K and L. R sits second to the right of S, the director. P does not sit opposite engineer and K. is neither an engineer nor a doctor Lawyer does not sit opposite actor. 2. Who sits opposite the

director?

a. Actor

b. Professor

c. L

d. K

10 : The apartment complex management is planning to take the children to a cinema. They have informed the parents about the rules for this event, which are as follows: I. Every child below 4 years of age has to be accompanied by both parents. II. Children of 4 - 12 years of age must be accompanied by either of the parents. III. Children above 12 years must not be accompanied by any parent. The management is planning to send a few representatives and assistants along in the following way. A. For a group of every 10 children or a part thereof, there must be a

representative. B. For a group of every 5 representatives or a part thereof, there must be an assistant.

If the number of representatives in the cinema is 10, what would be the maximum number of people in the cinema?

a. 285

b. 312

c. 314

d. None of these

11 : What comes next in this series: ?N?, ?SW?, ?E?, _____

a. ?NW?

b. ?NW?

c. ?NW?

d. ?W?

12 : Look at this series: EVA, HSE, KPI,____, QJQ What comes in the blank?

a. OMN

b. ONM

c. NMM

d. ONN

13 : Look at this series: DZA, HXC, LVE,____, TRI What comes in the blank?

a. QTH

b. PTG

c. PUH

d. QUH

14 : 5 children - Osher, Cookie, Daniel, Kevin and Samuel - are standing in a line, wearing 5 T-shirts each of a different color. The colors are Red, Blue, Green, Yellow and White. Osher is to the immediate left of the person who is wearing the Yellow T-Shirt. Kevin is to the immediate right of the person wearing White T-Shirt. Samuel is at the extreme right end. Osher is not wearing White T-shirt. Neither Cookie nor Daniel is wearing Yellow T-shirt.

Who can be wearing the white T - Shirt?

a. Samuel and Cookie

b. Daniel and Cookie

c. Daniel and Samuel

d. Kevin and Cookie

15 : In LaLa land, every inhabitant gives two statements as reply to any question. Out of these two statements, one is always true and the other one is always false. One day I met three inhabitants of this island - A, B and C. I asked them about the chief of the island. Their replies were as follows: A:"I am not the chief. B is not the chief". B: "I am the chief. C is not the chief." C: " I am not the chief. B is the chief."

Based on the statements give above, who among A, B and C was the chief?

- a. A
- b. B
- c. C
- d. Cannot be determined

16 : Seven Person - P, Q, R, S, T, U and V, who are of different ages, are comparing their ages. We know the following information.1) P is younger than R, who is not older than s.2) S is younger

than only two people .3) Q is not the oldest but the fourth youngest person. 4) T is older than only U. 1. W

a. S

b. T

c. U

d. V

17 : Each question below has four groups of three statements each. Read the statements in each group carefully and identify the groups, where the third statement in the group logically follows from the first two statements in the group.

A) All cubs are lions; no lion is a hyena; no cub is a hyena

B)All parties are cocktails; some parties are not discos; some cocktails are not discos

C)All vodkas are Smirnoff; Romanov is a vodka; Romanov is a Smirnoff.

D) All wines are red; all wines are good; some reds are good

a. A,B

b. A,B,C

c. A,B,C,D

d. A,C

18 : Look at this series: E34, G80, I13-4,____, M23-12 What comes in the blank?

a. K18-8

b. L19-5

c. K19-7

d. L19-8

19 : Seven persons Paul, Queen, Rax, Sam, Tom, Unif and Vali are sitting in a row. Rax and Sam, sit next to each other. There are exactly four persons between Queen and Vali. Sam, sits to the intermediate left of Queen. 4. If Tom sits to the right of Queen, and Paul is separated from Tom by exactly three persons, then who is sitting to the immediate right of Vali?

a. Unif

b. Paul

c. Tom

d. Rax

20 : Read the data given below and answer the following questions. Ms. Naina a drawing teacher teaches only one student a day on consecutive days in a week (from Monday to Friday). Her

students are Daniel, David, Dilip, Dravid and Dulip. She teaches exactly one topic (from Indian art, Medieval art, abstract art, canvas painting and pencil sketches) to each of them and no subject is taught before canvas painting, but it is not taught on Wednesday. Daniel's class is before Dulip's class. Dilip comes on Wednesday before pencil sketches class. Indian art is taught after David's class but before Dulip's. Abstract is the first class in a week. Dravid's class is after the class on Indian art.

If David comes on Tuesday, Daniel is taught which of the following subjects?

- a. Abstract art
- b. Medieval art
- c. Canvas painting
- d. Indian art

21 : XYZ Ltd, wants to give four advertisements in four different magazines. It has selected four magazines B, C, D and R for this purpose. Each of these four magazines is to feature in exactly one advertisement, each on a different page from among pages 1,2,3 and 4. R does not accept advertisements on pages 1 and 2. B does not accept advertisements on pages 1 and 4. D does not accept advertisements on pages 3 and 4. R takes advertisements only on page 1.

Which of the following magazines should be chosen for an advertisement on page 2?

- a. R
- b. D
- c. C
- d. Cannot be determined

22 : The apartment complex management is planning to take the children to a cinema. They have informed the parents about the rules for this event, which are as follows:

I. Every child below 4 years of age has to be accompanied by both parents.

II. Children of 4 - 12 years of age must be accompanied by either of the parents.

III. Children above 12 years must not be accompanied by any parent.

The management is planning to send a few representatives and assistants along in the following way.

A. For a group of every 10 children or a part thereof, there must be a representative. B. For a group of every 5 representatives or a part thereof, there must be an assistant.

If there are exactly 63 people from the apartment in the cinema and there are children of only below 4 years of age and those between 4 and 12, then which of the following must be true?

I. The number of below 4 year olds must be odd.

II. The number of 4 -12 years old must be odd.

III. The number of students must be odd.

a. I only

b. II only

c. I and III only

d. II and III only

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If there are exactly 63 people from the apartment in the cinema and there are children of only below 4 year olds and 4 - 12 year old, what is the number of representatives in the cinema?

a. 2

b. 4

c. 3

d. Cannot be determined

24 : Six people, D, C, E, G, B and H - sat around a table, which has six equispaced chairs around it. There is a teacher, an accountant, a lawyer, an engineer, an actor and a doctor among them.

Each of these six people carry out exactly one profession. H is opposite to D. The lawyer is to the right of the teacher and opposite to the actor. C is to the right of D. B is the actor. C is neither the lawyer nor the teacher. E is opposite to the Actor.

Which of the following is G?

a. Doctor

b. Engineer

c. Accountant

d. Teacher

25 : The questions are based on the following data.

Eight persons A,B,C, D, E, F, G and H are sitting around a table.

B is opposite to D, who is next to E.

A is next to B but not opposite E.

From E, A is nearer in clockwise direction.

IF C is to the left of F, but not next to D, then who among the following is opposite to F?

a. E

b. A

c. G

d. F

26 : Look at this series: DUG, HRK, LOO,____, TIW What comes in the blank?

a. QLS

b. OMS

c. PLS

d. THV

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If there are exactly 65 people from the apartment in the cinema and all the children belong to the same age group, which of the following must be true?

a. They must belong to 12 years and above

b. They must belong to 4 - 12 years

c. They must belong to below 4 years

d. It cannot be determined to which age group the children belong to

28 : Look at this series: E34, G80, I13-4,____, M23-12 What comes in the blank?

a. K18-8

b. L19-5

c. K19-7

d. L19-8

29 : A lotion maker has to mix three perfume fragrances - Sage, Musk, White Lily with three moisturizers - Shea butter, Vitamin E and Flower seed Oil - and fill them in 3 boxes - White, Pink and Yellow. Each perfume must be mixed with one of the lotions. The mixture containing Sage must be filled in the white box. Musk is mixed with Vitamin E, but this mixture cannot be filled in the Yellow box. The mixture containing Shea Butter must be filled in the Yellow box.

Shea butter can be mixed with which fragrance?

a. Sage

b. Vitamin E

c. White Lily

d. Musk

30 : Each of the following statements is followed by four different statements. Select the one that logically follows the main statement.

Unless Sophea's uncle reads the novel, he will neither go to the market nor buy it

a. Sophea's uncle did not read the novel, implies he neither went to the market nor bought the novel.

b. Sophea's uncle went to the market and bought the novel, implies she read it.

c. Sophea's uncle did not go to the market and did not buy the novel, implies she did not read the novel.

d. Both 1 and 2

31 : Look at this series: ASA, CRD, EQG, ___, IOM What comes in the blank?

a. HPK

b. FQK

c. GPJ

d. INM

32 : Three teachers P, Q, R were talking about six students A, B, C, D, E and F who wrote an examination in Physics. P predicted that B, D, A and C would get 1st, 2nd, 3rd and 4th ranks

respectively and the other two would fail. Q predicted that E, B, A and F would get 1st, 2nd, 3rd and 4th ranks respectively and the other two would fail. R predicted that A, D, F and E would get 1st, 2nd, 3rd and 4th ranks respectively and the other two would fail. When the results were announced, it was found out that: Exactly two persons got the same ranks as predicted by P, one student got the same rank as predicted by Q and one student got the same rank as predicted by R.

Exactly two students, who were predicted to pass by P, failed. Exactly, one student, who was predicted to pass by Q, failed. Exactly one student, who was predicted to pass by R, failed.

Who got the first rank?

a. E

b. B

c. C

d. F

33 : Seven persons Paul, Queen, Rax, Sam, Tom, Unif and Vali are sitting in a row. Rax and Sam sit next to each other. There are exactly four persons between Queen and Vali. Sam sits to the intermediate left of Queen. 1. If Paul and Tom are separated exactly by two persons, then who sits to the immediate right of Vali?"

a. Paul

b. Tom

c. Unif

d. Rax

34 : What comes in the blank: H?, K?, N?, _____, T?

a. Q?

b. R?

c. P?

d. Q?

35 : P, Q, R, S and T sit around a table. P sits two seats to the left of R and Q sits two seats to the right of R. 1. If S sits between Q and R, who sits to the immediate right of P?

a. T

b. S

c. Q

d. R

36 : Seven Person - P, Q, R, S, T, U and V, who are of different ages, are comparing their ages. We know the following information. 1) P is younger than R, who is not older than S. 2) S is younger than only two people. 3) Q is not the oldest but the fourth youngest person. 4) T is older than only U. **2. Who is the third youngest?**

a. V

b. P

c. R

d. S

37 : A lotion maker has to mix three perfume fragrances - Sage, Musk, White Lily with three moisturizers - Shea butter, Vitamin E and Flower seed Oil - and fill them in 3 boxes - White, Pink and Yellow. Each perfume must be mixed with one of the lotions. The mixture containing Sage must be filled in the white box. Musk is mixed with Vitamin E, but this mixture cannot be filled in the Yellow box. The mixture containing Shea Butter must be filled in the Yellow box.

Musk goes into which box?

a. White

b. Pink

c. Yellow

d. Any of these

Confessions Hyderabad

Quants

1 : The difference between the roots of the equation $6x^2+wx+1=0$ is $1/6$; If $w>0$, then the value of w is

a. 6

b. 5

c. 4

d. 3

2 : In a bag, there are coins of 25 cents, 10 cents and 5 cents in the ratio of 1 : 2 : 3. If there is \$ 30 in all, how many 5 cent coins are there?

a. 50.0

b. 100.0

c. 150.0

d. 200.0

3 : There are three numbers. Two numbers are respectively 20percent and 60percent more than the third number. The ratio of the highest and the lowest numbers is:

a. 3:4

b. 5:8

c. 4:5

d. 1:6

4 : A can complete a piece of work in 40 days, B in 60 days and C in 80 days.

A works alone on the first day, A and B on second day and all three of them on the third day.

On the fourth day B works alone and is joined by C on the fifth day and all the three persons work on the sixth day.

On the seventh day C worked alone.

A joined him on the eighth day and on the ninth day all 3 of them worked.

If the entire cycle is repeated till the work is completed, how many days will they need to complete the work?

a. 28

b. 22

c. 25

d. 26

5 : What is the sum of the first 1001 numbers of the series: 1, 5, 9, 13, ...

a. 2030001

b. 3002001

c. 2003001

d. 1002003

6 : The sum of digits of two-digit number is 10 and the difference between the digits is 2. What is the number?

a. 64.0

b. 42.0

c. 86.0

d. 97.0

7 : Sruti purchased a recliner and dining table set online and applied discount coupons for 15% on the recliner and 10% on the dining table.

However due to a program error the discount percentages got interchanged and payment deducted from her wallet accordingly.

How much more did Sruti pay considering the dining table costs one-third of the recliner?

a. 5%

b. 1.8%

c. 2.8%

d. 2.9%

8 : Find the roots of the quadratic equation: $x^2 + 2x - 15 = 0$

a. -5,3

b. 3,5

c. 5,-3

d. -5,-3

9 : The average of 20 numbers is zero. Of them, at the most, how many may be greater than zero?

a. 0

b. 1

c. 10

d. 19

10 : Rumi leaves her home at 1:30 PM and drives at 40 kmph. At 2:00 PM, Buzo starts from the same place and moves at an average speed of 50 kmph. When will Buzo catch up with Rumi?

a. 4:00 PM

b. 3:15 PM

c. 3:30 PM

d. 4:30 PM

11 : The difference between the squares of two numbers is 256000 and the sum of the numbers is 1000. One of the numbers is:

a. 628.0

b. 625.0

c. 370.0

d. 373.0

12 : In a bag, there are coins of 25 cents, 10 cents and 5 cents in the ratio of 1 : 2 : 3. If there is \$ 30 in all, how many 5 cent coins are there?

a. 50.0

b. 100.0

c. 150.0

d. 200.0

13 : A and B run around a circular track of length 700 m starting from the same point simultaneously in opposite directions, If A runs at a speed of 6 m/second and B runs at a speed of 8 m/second, when will they meet at the starting point again?

a. 50 seconds

b. 100 seconds

c. 140 seconds

d. 350 seconds

14 : If a circular sheet of aluminium foil with diameter 40 cms is cut into 4 smaller circles of radius 5 cms each, what is the ratio of the uncut to the cut portion?

a. 1:3

b. 4:1

c. 1:4

d. 3:1

15 : In a combo pack of a pencil and eraser, the pencil costs Re.1 more than the eraser.

If the price of the combo is Rs.1.10, what is the price of the eraser?

a. 10 Paise

b. 5 Paise

c. 15 Paise

d. None of the options

16 : A shopkeeper calculated selling price at 6% profit on the cost of a product. However while quoting the figure to the customer, she interchanged the units and tens digit of the selling price. This reduced the profit by Rs.9 and the profit percentage to 2.4%. What is cost of the product?

a. 250

b. 240

c. 480

d. 400

17 : In Kaziranga Park, the residents are either Hippopotamus or Peacocks. When the heads are counted, it comes out to be 96 and when the legs are counted it is 336. Find the number of Peacocks in Kaziranga Park.

a. 41.0

b. 57.0

c. 70.0

d. 24.0

18 : PQRS is a square with X and Y as the midpoints of the sides PQ and PS respectively.

What is the ratio of the areas of triangles YSR and XYR?

a. 1:2

b. 2:3

c. 2:1

d. Data Insufficient

19 : In a group of 50 people, 40 speak Hindi and 22 speak English, and all of them speak at least one of the 2 languages. Find the number of people who speak English but not Hindi

a. 22

b. 15

c. 12

d. 10

20 : Which of the following numbers are divisible by 3 but not by 9?

a. 936

b. 19989

c. 2343

d. 36

21 : $106 \times 106 + 94 \times 94 = y$. What is y?

a. 20052.0

b. 20062.0

c. 20072.0

d. 20042.0

22 : Which of the following numbers is completely divisible by 45?

a. 22768

b. 50000

c. 4035

d. 2025

23 : There are 10 students in a class aged 10,9,11,12,9,9,10,10,10,10. The average age is

a. 10

b. 9.5

c. 9.75

d. 9.8

24 : The sum of three consecutive odd numbers is 20 more than the first of these numbers. What is the middle number ?

a. 7.0

b. 8.0

c. 9.0

d. 10.0

25 : In the jungle, the residents are either lions or parrots. When the heads are counted, it comes out to be 86 and when the legs are counted it is 300. Find the number of parrots in the jungle.

a. 22.0

b. 30.0

c. 41.0

d. 49.0

26 : $5 \times (3 + 2) + 5^{2}$

a. 25

b. 50

c. 150

d. 100

27 : The difference between the squares of two numbers is 256000 and the sum of the numbers is 1000. One of the numbers is:

a. 628.0

b. 625.0

c. 370.0

d. 373.0

28 : Two numbers A and B are such that the sum of 5percent of A and 4percent of B is two-third of the sum of 6percent of A and 8percent of B. Find the ratio of A : B.

a. 2:3

b. 1:1

c. 3:4

d. 4:3

29 : The average age of the father, mother and their child 3 years ago was 27 years and that of the mother and the child 5 years ago was 20 years. The present age of the father is:

a. 35.0

b. 40.0

c. 45.0

d. 50.0

30 : If 20percent of a = b, then bpercent of 20 is the same as:

a. 4percent of a

b. 5percent of a

c. 20percent of a

d. 24percent of a

31 : Ground coffee from 2 plantations are mixed in the ratio 4:3 and the mixture is sold at 24 USD per pack at a profit of 20%. If the ground coffee from plantation 1 costs 4 USD per pack more than the one from plantation 2, how much does a pack of the 2nd variety cost? (assume a pack = 100 grams in all cases)

a. 17.71 USD

b. 18 USD

c. 21 USD

d. 21.21 USD

32 : Find the roots of the quadratic equation: $3x^2 - 7x - 6 = 0$

a. -5,2

b. -8,4/5

c. 3, -2/3

33 : 10% of garments produced in a mill are found defective and 20% of the remaining are sold in the mill's factory outlet.

If the remaining 5040 garments are shipped to other retail stores, then the number of garments that were defective was:

a. 700

b. 720

c. 7000

d. 7200

34 : $1506 \times 1506 = y$. What is y?

a. 2268016.0

b. 2268036.0

c. 2268046.0

d. 2268026.0

35 : If the sum of the first 11 numbers in an arithmetic progression is same as the sum of the first 19 numbers, then what is the sum of the first 30 numbers?

a. 1

b. -1

c. 0

d. Data Insufficient

36 : Two numbers are respectively 20percent and 60percent more than a third number. The ratio of the two numbers is:

a. 1:3

b. 2:3

c. 3:4

d. 1:6

37 : Two numbers A and B are such that the sum of 5 percentage of A and 4 percentage of B is two-third of the sum of 6 percentage of A and 8 percentage of B. Find the ratio of A : B.

a. 2:3

b. 1:1

c. 3:4

d. 4:3

38 : A vessel is full of a Mixture of Sugar and Salt in which there is 20 percentage Salt. 7 kgs of Mixture are drawn off and filled with Sugar. If the Salt is now 15 percentage, what is the capacity of the vessel?

a. 28.0

b. 40.0

c. 48.0

d. 48.0

39 : At dinner, there was a bowl of pudding for every two guests, a bowl of punch for every three of them and a bowl of chicken for every four of them. If there were all 65 bowls of food, then how many guests were there at the party ?

a. 55.0

b. 60.0

c. 65.0

d. 70.0

40 : Ten years ago, the ages of the members of a joint family of eight people added up to 231 years.

Three years later, one member died at the age of 60 years and a child was born during the same year.

After another three years, one more member died, again at 60, and a child was born during the same year.

The current average age of this eight member joint family is nearest to:

a. 21 years

b. 22 years

c. 23 years

d. 24 years

41 : A grocer had some bananas. He sells 40percent bananas and still has 420 bananas. Originally, he had:

a. 600.0

b. 700.0

c. 800.0

d. 1000.0

42 : If $2x^2 - 7xy + 3y^2 = 0$, then the value of $x : y$ is

a. 3:4

b. 2:3

c. 5:6

d. 3:1

43 : The difference of the squares of two consecutive integers is divisible by which of the following integers?

a. 1

b. 2

c. 3

44 : A Mixture of 50 Litres of orange juice contains 20 percentage fruit concentrate. How much more fruit concentrate should be added to the Mixture to increase the percentage of fruit concentrate to 25 percentage in the new Mixture?

- a. 2 Litres
- b. 4 Litres
- c. 5 Litres
- d. 3.33 Litres**

45 : A sum of \$156 was divided among 100 men and women in such a way that each man got \$1.80 and each woman got \$1.20. The number of women in the group was:

- a. 35.0
- b. 40.0**
- c. 45.0
- d. 50.0

46 : Six bells commence tolling together and toll at intervals of 2, 4, 6, 8 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together?

- a. 15
- b. 16**
- c. 4
- d. 10

47 : The product of the 12 edges of a rectangular box is the same as:

Statement A: 4th power of the volume of the box

Statement B: Product of the areas of 6 faces of the box

Statement C: Sum of the squares of the areas of 6 faces of the box

- a. None of given statements
- b. Only 1 of the given statements
- c. Only 2 of the given statements
- d. All the given statements

48 : At dinner, there was a bowl of pudding for every two guests, a bowl of punch for every three of them and a bowl of chicken for every four of them. If there were all 65 bowls of food, then how many guests were there at the party ?

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c. 65.0

d. 70.0

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b. 40.0

c. 45.0

d. 50.0

50 : $2^2 + 4^2 + 6^2 + \dots + 14^2 = ?$

a. 260

b. 730

c. 460

d. 560

51 : $7 + 7 \div 7 + 7 \times 7 - 7 = ?$

a. 50

b. 49

c. 70

d. 63

52 : A Mixture of 50 Litres of orange juice contains 20percent fruit concentrate. How much more fruit concentrate should be added to the Mixture to increase the percentage of fruit concentrate to 25percent in the new Mixture?

a. 2 Litres

b. 4 Litres

c. 5 Litres

d. 3.33 Litres

53 : What percentage of numbers from 1 to 80 have 1 or 9 in the unit's digit?

a. 14.0

b. 16.0

c. 18.0

d. 20.0

54 : A vessel is full of a Mixture of Methanol and Ethanol in which there is 20 percentage Ethanol. 10 Litres of Mixture is drawn off and filled with Methanol. If the Ethanol is now 15 percentage, what is the capacity of the vessel?

a. 55 L

b. 40 L

c. 71 L

d. 69 L

55 : If $2x^2 - 7xy + 3y^2 = 0$, then the value of $x : y$ is

a. 3:4

b. 2:3

c. 5:6

d. 3:1

56 : Solve the inequality $2x-1 < 2(1+x)$

a. $x=0$

b. $x < -1/2$

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c. $x > 1/2$

d. Any value of x

57 : To a thoughtful mind, such a religion as that of Rome would give small satisfaction. Its legends were often childish or impossible; its teaching had little to do with morality. The Roman religion was in fact of the nature of a bargain: men paid certain sacrifices and rites, and the gods granted their favour, irrespective of right or wrong. In this case, all devout souls were thrown back upon philosophy, as they had been, though to a less extent, in Greece. There were under the early empire two rival schools which practically divided the field between them, Stoicism and Epicureanism. The ideal set before each was nominally much the same. The Stoics aspired to the repression of all emotion, and the Epicureans to freedom from all disturbance; yet in the upshot, the one has become a synonym of stubborn endurance, the other for an unbridled licence. With Epicureanism, we have nothing to do now, but it will be worthwhile to sketch the history and tenets of the Stoic sect. Zeno, the founder of Stoicism, was born in Cyprus at some date unknown, but his life may be said roughly to be between the years 350 and 250 B.C. Cyprus has been from time immemorial a meeting-place of the East and West, and although we cannot grant any importance to a possible strain of Phoenician blood in him (for the Phoenicians were no philosophers), yet it is quite likely that through Asia Minor he may have come in touch with the Far East. He studied under the cynic Crates, but he did not neglect other philosophical systems. After many years' study, he opened his own school in a colonnade in Athens called the Painted

Porch, or Stoia, which gave the Stoics their name. According to the author, not much is known of Zeno, except...

- a. He was born in Cyprus and studied under the cynic Crates
- b. He had some undefined Phoenician ancestry and was born in 350 BC
- c. He travelled to the Far East after encountering eastern philosophies in Cyprus
- d. All of the above

58 : The greatest number of four digits which is divisible by 15, 25, 40 and 75 is:

- a. 9000
- b. 9400
- c. 9600
- d. 9800

59 : A Milkman purchases Milk at Rs. 20/Litres and mixes 4 K16 of Water in it. By selling the resultant Mixture at the rate of Rs. 20/Litres, he earns a profit of 40.0percent. The amount of Mixture he had with him to sell was:

- a. 16 Litres
- b. 24 Litres
- c. 14 Litres
- d. 18 Litres

60 : How many positive integer solutions are there for the equation $13x+8y=523$

a. 4

b. 5

c. 8

d. 9

61 : The sum of three consecutive odd numbers is 20 more than the first of these numbers. What is the middle number ?

a. 7.0

b. 8.0

c. 9.0

d. 10.0

62 : A pipe can fill water at the rate of 35 litres per 10 minutes.

This pipe when opened into a tank that is 2/3rd empty, fills that tank in 12 minutes.

What is the capacity of this tank?

a. 42 Litres

b. 21 Litres

c. 63 Litres

d. 75 Litres

63 : $106 \times 106 + 94 \times 94 = y$. What is y?

a. 20052.0

b. 20062.0

c. 20072.0

d. 20042.0

64 : The ratio of the number of men and women in a room is 7 : 8. If the percentage increase in the number of men and women be 20 percentage and 10 percentage respectively, what will be the new ratio?

a. 7:8

b. 8:9

c. 21:22

d. 14:11

65 : The ages of students in an elementary class are 7, 9, 10, 13, 11, 7, 9, 19, 12, 11, 9, 7, 9, 10, 11. The mode is:

a. 7

b. 9

c. 10

d. 11

66 : A series of discounts of 20%, 10% and 10% is equivalent to a single discount of

a. 34.6

b. 40

c. 36

d. 35.2

$$67 : 4 \times 4 \div 4 + 4^{\text{power}2}$$

a. 40

b. 20

c. 28

d. 26

68 : In Sunil's family the youngest member was 1 year old and the oldest member was 67 years old.

The second youngest member was 1 year older than the youngest member, the third 2 years older than the second and so on.

How many members are there in Sunil's family?

a. 8

b. 10

c. 12

d. None of the options

69 : What is the remainder when 7^{100} is divided by 100?

a. 1

b. 7

c. 9

d. 3

70 : In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs

a. 5.75

b. 6

c. 6.25

d. 6.75

71 : If 20 percent of a = b, then b percentage of 20 is the same as:

a. 4 percentage of a

b. 5 percentage of a

c. 20 percentage of a

d. 24 percentage of a

72 : The average monthly income of Ram and Rahim is Rs. 5050. The average monthly income of Rahim and Raj is Rs. 6250 and the average monthly income of Ram and Raj is Rs. 5200. The monthly income of Ram is:

a. 3500

b. 4000

c. 4500

d. 5000

73 : There are three numbers. Two numbers are respectively 20 percentage and 60 percentage more than the third number. The ratio of the highest and the lowest numbers is:

a. 3:4

b. 5:8

c. 4:5

d. 1:6

74 : A tub contains a solution with 83% water and 17% spirit. 10 litres of the solution is removed

and replaced with water. The proportion of spirit is now $\frac{15}{9}$ %. How much does the tub hold?

a. 70 litres

b. 80 litres

c. 90 litres

d. 100 litres

75 : Ahmed Ali made a century which included 2 fours and 7 sixes. What percent of his total score

did he make by running between the wickets?

a. 40 percentage

b. 45 percentage

c. 48 percentage

d. 50 percentage

76 : Which of the following will be an even number if a and b are odd numbers?

a. $a+b$

b. $a+b+1$

c. ab

d. ab+2

77 : A tap can fill a drum in 60 minutes. When it has been open for 20 minutes, a hole is made in the bottom of the drum to siphon the water into a sump. The drum is filled after a further 120 minutes. In how many minutes can the hole alone empty the complete contents of the drum into the sump?

a. 60

b. 90

c. 120

d. 150

78 : If one root of $x^2 - 6kx + 5 = 0$ is 5, find the value of k.

a. -1.0

b. 1.0

c. 2.0

d. 3.0

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Verbal Ability

1 : Spot the error The new committee arranged everything as it was before, except the weekly meetings were discontinued.

- a. The new committee arranged everything as it was before, except the
- b. weekly
- c. meetings were
- d. discontinued

2 : To a thoughtful mind, such a religion as that of Rome would give small satisfaction. Its legends were often childish or impossible; its teaching had little to do with morality. The Roman religion was in fact of the nature of a bargain: men paid certain sacrifices and rites, and the gods granted their favour, irrespective of right or wrong. In this case, all devout souls were thrown back upon philosophy, as they had been, though to a less extent, in Greece. There were under the early empire two rival schools which practically divided the field between them, Stoicism and

Epicureanism. The ideal set before each was nominally much the same. The Stoics aspired to the repression of all emotion, and the Epicureans to freedom from all disturbance; yet in the upshot, the one has become a synonym of stubborn endurance, the other for an unbridled licence. With Epicureanism, we have nothing to do now, but it will be worthwhile to sketch the history and tenets of the Stoic sect. Zeno, the founder of Stoicism, was born in Cyprus at some date unknown, but his life may be said roughly to be between the years 350 and 250 B.C. Cyprus has been from time immemorial a meeting-place of the East and West, and although we cannot grant any importance to a possible strain of Phoenician blood in him (for the Phoenicians were no philosophers), yet it is quite likely that through Asia Minor he may have come in touch with the Far East. He studied under the cynic Crates, but he did not neglect other philosophical systems. After many years' study, he opened his own school in a colonnade in Athens called the Painted Porch, or Stoa, which gave the Stoics their name. According to the passage, which of the following statements is correct?

- a. Phoenicians were not known to be philosophers
- b. Phoenicians birthed many philosophers like Zeno

c. Zeno was born in the Phoenician land

d. Zeno's leanings towards philosophy have to do with his Phoenician ancestry

3 : Read the statements carefully and answer the questions that follow - Whenever the Governor goes to Delhi, the CM is in Bangalore. Whenever the PCC Chief goes to Delhi, the CM also goes to Delhi; Whenever the CM and the Governor are at one place, the Deputy CM is not at that place.

If the Governor and the PCC Chief are in Bangalore, then which of the following statements is true?

- a. The CM cannot be in Hyderabad
- b. The CM cannot be in Delhi
- c. The Deputy CM cannot be in Hyderabad.
- d. None of these

4 : Spot the error She had scarcely finished writing while she fell asleep.

- a. She had scarcely
- b. finished writing
- c. while she fell
- d. asleep.

5 : Read the statements carefully and answer the questions that follow - Good science writers demystify science as well as the scientists. In fact, one of their prime tasks is to remove public misconceptions about both. Are scientists different from all of us? Do they think differently? A host of books written in the last few decades seemed to answer these questions in the negative.

Which of the following can be a conclusion made by the author?

- a. Scientists think in the same way as others do but it is their hard work and continuous penetrating insight that makes the difference
- b. It is the difference in thinking patterns that makes a few people scientists. Sure they are different from others as far as thinking is concerned.
- c. Bad science writers have created a very hazy and unclear perception of science and scientists.
- d. None of these

6 : To a thoughtful mind, such a religion as that of Rome would give small satisfaction. Its legends

were often childish or impossible; its teaching had little to do with morality. The Roman religion was in fact of the nature of a bargain: men paid certain sacrifices and rites, and the gods granted their favour, irrespective of right or wrong. In this case, all devout souls were thrown back upon philosophy, as they had been, though to a less extent, in Greece. There were under the early empire two rival schools which practically divided the field between them, Stoicism and Epicureanism. The ideal set before each was nominally much the same. The Stoics aspired to the repression of all emotion, and the Epicureans to freedom from all disturbance; yet in the upshot, the one has become a synonym of stubborn endurance, the other for an unbridled licence. With Epicureanism, we have nothing to do now, but it will be worthwhile to sketch the history and tenets of the Stoic sect. Zeno, the founder of Stoicism, was born in Cyprus at some date unknown, but his life may be said roughly to be between the years 350 and 250 B.C. Cyprus has been from time immemorial a meeting-place of the East and West, and although we cannot grant any importance to a possible strain of Phoenician blood in him (for the Phoenicians were no philosophers), yet it is quite likely that through Asia Minor he may have come in touch with the Far East. He studied under the cynic Crates, but he did not neglect other philosophical systems. After many years' study, he opened his own school in a colonnade in Athens called the Painted Porch, or Stoa, which gave the Stoics their name. According to the author, Stoicism derives its name from Stoa, which is...

a. A colonnade called the Painted Porch in Athens

- b. A school called Stoa in Cyprus opened by Zeno
- c. Painted Porch, a school opened by Zeno in a colonnade in Athens
- d. An Athenian school called the painted porch in a colonnade

7 : A number of sentences are given below, which when properly sequenced, form a coherent paragraph. Each sentence is labeled with a letter. Choose the most logical order of sentences from among the four given choices to construct a paragraph.

- A. I believe strongly that the training of personnel from the new and emerging countries is of critical importance and great urgency.**
 - B. The problem of population regulation has many facets and dealing with the problem, therefore, means, more than a simple pill or a simple device.**
 - C. It means that the trained personnel who know the local circumstances must be available to aid in the development of methods and techniques.**
 - D. The poorest are over hesitant, evasive, preoccupied with their relationships with their colleagues, superiors, the press or the political support on which they lean.**
 - E. They will make no move unless the gallery is packed.**
- a. ABCDE
 - b. EBACD
 - c. CABED
 - d. CBDEA

8 : Common stereotypes associate high-level intellectual ability (brilliance, genius, etc.) with men more than women. These stereotypes discourage women's pursuit of many prestigious careers; that is, women are underrepresented in fields whose members cherish brilliance (such as physics and philosophy). Here we show that these stereotypes are endorsed by, and influence the interests of, children as young as 6. Specifically, 6-year-old girls are less likely than boys to believe that members of their gender are "really, really smart." Also at age 6, girls begin to avoid activities said to be for children who are "really, really smart." These findings suggest that gendered

notions of brilliance are acquired early and have an immediate effect on children's interests. What does the author mean by the line “gendered notions of brilliance are acquired early and have an immediate effect on children's interests”?

- a. Common stereotypes are acquired very early in life & start to affect choices girls make in fields of study
- b. Men perpetuate common stereotypes about women's intelligence as early as age 6
- c. Common stereotypes about women's intellectual capabilities can manifest as early as age 6
- d. None of the above

9 : Select the correct alternative from the given choices.

If you have brain disease and your brain is in two parts, left and right, then left brain has nothing right in it and the right brain has nothing left in it.

- a. Your left brain has something right in it and right brain has something left in it, means you do not have a brain disease and you do not have two parts in your brain, left and right.
- b. Your left brain has something right in it and right brain has something left in it, means you do not have a brain disease or you do not have two parts in your brain, left and right.
- c. You have a brain disease or you have two parts - left - right in your brain, means your left brain has nothing right in it and your right brain has nothing left in it.
- d. Both 1 and 2

10 : The investigating officer began to wonder whether the murder was _____ as he began to dig deeper into the case details.

- a. Premeditated
- b. Incidental
- c. Ghastly
- d. Gruesome

11 : Most names are like tiny _____ of information about the owner, _____ a quick profile of the sex, religion and ethnic background.

- a. Appendages, Divulgling
- b. Epitomes, Revealing
- c. Compendium, Advertising
- d. Dossiers, Conveying

12 : The argument was not only _____ in its context, but it was also _____ to the sentiments of the people which could hurt them.

- a. Inapt :: Correct
- b. Befitting :: Against
- c. Irrelevant :: Irreverent
- d. Agreeing :: Respectful

13 : Research policy observers are increasingly concerned about the potential impact of current academic working conditions on mental health, particularly in PhD students. The aim of the current study is threefold. First, we assess the prevalence of mental health problems in a representative sample of PhD students in Flanders, Belgium. Second, we compare PhD students to three other samples: (1) highly educated in the general population; (2) highly educated employees; and (3) higher education students. Third, we assess those organizational factors relating to the role of PhD students that predict mental health status. Results based on 12 mental health symptoms (GHQ-12) showed that 32 percentage of PhD students are at risk of having or developing a common psychiatric disorder, especially depression. This estimate was significantly higher than those obtained in the comparison groups. Organizational policies were significantly associated with the prevalence of mental health problems. Especially work-family interface, job

demands and job control, the supervisor's leadership style, team decision-making culture, and perception of a career outside academia are linked to mental health problems. What was the main purpose of this study?

- a. To establish a link between academic research and madness
- b. To study whether PhD students are more prone to mental health issues than normal students
- c. To study the impact that current academic working conditions are having on mental health of PhD students
- d. To examine whether a study can reveal a causal link between depression in PhD students and link it with their academic research

14 : For each question below select the best word from the choices to fill in the blank

The population in the inhospitable regions like Arctic circle is generally _____ although in a few favoured places it is dense.

- a. Thick
- b. Homogenous
- c. Sparse
- d. Populous

15 : Which one is an incorrect usage of the word - Exalt?

- a. A) In the church, we exalt our God in prayer.
- b. B) The cruel prison guard did everything he could to exalt inmates and make them feel worthless.
- c. C) For a fee, most celebrities will exalt a product by pretending to like it.
- d. D) The purpose of the brochure is to exalt the beauty of the small island nation.

16 : Choose the correct one A. The delays by the prosecution have pushed the trial date farther. B. The sooner the trial begins, the best for us. C. We will breathe a sigh of relaxation when all this ends.

- a. A
- b. B
- c. C
- d. None of the above

17 : A number of sentences are given below, which when properly sequenced, form a coherent paragraph. Each sentence is labeled with a letter. Choose the most logical order of sentences from among the four given choices to construct a paragraph.

- A. Such a religion can lead us.**
- B. Ram practiced a religion**

C. He was able to commune with God.

D It was the religion of experience.

a. ABCD

b. BDCA

c. CADB

d. DABC

18 : Each pair of capitalized words given below are followed by four pairs of words. Choose the pair that does not exhibit the relationship similar to that expressed in the capitalized pair.

CHAUFFEUR : CAR

a. mechanic : automobile

b. rider : bike

c. pilot : plane

d. None of these

19 : Each pair of capitalized words given below are followed by four pairs of words. Choose the pair that does not exhibit the relationship similar to that expressed in the capitalized pair.

RETROGRADE : PROGRESSIVE

a. Reverse gear : Forward gear

b. Backward : Forward

c. Radical : Orthodox

d. Back : Front

20 : Select the correct alternative from the given choices.

Anytime you tell anything to Heer she will definitely help you and give you whatever you need.

- a. Heer helped you and gave you whatever you needed, implies that you told something to Heer.
- b. Heer did not help you or give whatever you needed, implies you did not tell anything to Heer.
- c. You told something to Heer, but she did not give you what you needed, implies she helped you.
- d. Both 2 and 3

21 : Spot the error Hardly had she seen her aunt than she stopped

- a. Hardly had she

b. seen her aunt

c. than she stopped

d. fighting.

22 : The argument was not only____in its context, but it was also____to the sentiments of the people which could hurt them.

a. Inapt :: Correct

b. Befitting :: Against

c. Irrelevant :: Irreverent

d. Agreeing :: Respectful

23 : I had to____her on the way she could____the accessories with the wall colour.

a. Complain :: Comply

b. Compliment :: Complement

c. Confide :: Confidence

d. Compliment :: Confuse

24 : India's baffling array of state and national labor laws date to the 1940s: one provides for the type and number of spittoons in a factory. Another says an enterprise with more than 100

workers needs government permission to scale back or close. Many Indian businesses stay small in order to remain beyond the reach of the laws. Big firms use temporary workers to avoid them. Less than 15% of Indian workers have legal job security. The new government can sidestep the difficult politics of curbing privileges by establishing a new, simpler labor contract that gives basic protection to workers but makes lay-offs less costly to firms. It would apply only to new hires; the small proportion of existing workers with gold-star protections would keep them. Which of the following options best summarizes the main idea of the paragraph?

- a. More Indian workers can get permanent jobs and legal job security if existing labor laws are reformed.
- b. Effective labor law reform can encourage many Indian businesses to grow to more than 100 workers.
- c. Outdated Indian labor laws need to be simplified to provide basic protection to workers and curb privileges.
- d. The difficult politics of curbing privileges can be avoided if the changes in the labor law only apply to the new hires

25 : Spot the error She ordered certain girl to make entry into the Manager's office.

- a. She ordered
- b. certain girl to
- c. make entry into

d. the Manager's office

26 : In this question, a word with its meaning and usage is given. Select the word that is appropriate as a replacement to the word in the main sentence.

Gymnasts usually possess a supple body

a. Lithe

b. Flexible

c. Servile

d. Pliant

27 : A number of sentences are given below, which when properly sequenced, form a coherent paragraph. Each sentence is labeled with a letter. Choose the most logical order of sentences from among the four given choices to construct a paragraph.

A. Without much hesitation it can be argued that urban education in India could well be compared with the best anywhere in the world.

B. The whisper every once in a while to replace the medium of education with a regional language has fortunately not been taken seriously.

C. Today school education is the basis for the growth of an entire work force that is becoming increasingly competitive and information conscious.

D. No, this is not to enter into a debate on the question of preferences, it is only to point out that a time tested method has been followed with a degree of success and the caution not to experiment too much with the young and impressionable.

a. ABDC

b. ACBD

c. ABCD

d. ACDB

28 : Choose the correct one A. All that the company needs as a leader is any one of the five who respects job. B. The committee has made its decision about the subject. C. Rajesh as well as Sheetal has gone to the university, where they both will receive degrees. D. Neither of the boys have given their share of cake.

a. A & B

b. B only

c. C & D

d. C & B

29 : Einstein developed an ___ theory through his ___ and curious attitude.

a. Ingenious :: ingenuous

b. Genius :: Silly

c. Brilliant :: Childish

d. Excellent :: Gullible

30 : All the Pollution control agencies will have to scale up their coordination along the India Meteorological Department.

a. All the Pollution control agencies will have to

b. scale up their coordination

c. along the India Meteorological Department.

d. No Error

31 : "The extent to which proof is requisite to prove anything depends upon the present purpose. If our aim is general truth for its own sake, a systematic investigation is necessary; but if our object is merely to remove some occasional doubt that has occurred to ourselves or to others, it may be enough to appeal to any evidence that is admitted or not questioned. Thus, if a man doubts that some acids are compounds of oxygen, but grants that some compounds of oxygen are acids, he may agree to the former proposition when you point out that it has the same meaning as the latter, differing from it only in the order of the words. This is called proof by immediate inference.

Again, suppose that a man holds in his hand a piece of yellow metal, which he asserts to be copper, and that we doubt this, perhaps suggesting that it is really gold. Then he may propose

to dip it in vinegar; whilst we agree that, if it then turns green, it is copper and not gold. On trying this experiment the metal does turn green; so that we may put his argument in this way:--

Whatever yellow metal turns green in vinegar is copper; This yellow metal turns green in vinegar; Therefore, this yellow metal is copper. Such an argument is called proof by mediate inference; because one cannot see directly that the yellow metal is copper; but it is admitted that any yellow metal is copper that turns green in vinegar, and we are shown that this yellow metal has that property. Now, however, it may occur to us, that the liquid in which the metal was dipped was not vinegar or not pure vinegar, and that the greenness was due to the impurity. Our friend must

thereupon show by some means that the vinegar was pure; and then his argument will be that, since nothing but the vinegar came in contact with the metal, the greenness was due to the vinegar; or, in other words, that contact with that vinegar was the cause of the metal turning green." What is the central idea of the passage?

a. Understanding critical reasoning methods in problem-solving

b. Understanding the burden of proof for different subjects

c. An explanation of the different forms of proof

d. Explanation of different ways proof can be constructed for a given subject

32 : "The extent to which proof is requisite to prove anything depends upon the present purpose.
If our aim is general truth for its own sake, a systematic investigation is necessary; but if our object is merely to remove some occasional doubt that has occurred to ourselves or to others, it may be enough to appeal to any evidence that is admitted or not questioned. Thus, if a man doubts that some acids are compounds of oxygen, but grants that some compounds of oxygen are acids, he may agree to the former proposition when you point out that it has the same meaning as the latter, differing from it only in the order of the words. This is called proof by immediate inference. Again, suppose that a man holds in his hand a piece of yellow metal, which he asserts to be copper, and that we doubt this, perhaps suggesting that it is really gold. Then he may propose

to dip it in vinegar; whilst we agree that, if it then turns green, it is copper and not gold. On trying this experiment the metal does turn green; so that we may put his argument in this way:-- Whatever yellow metal turns green in vinegar is copper; This yellow metal turns green in vinegar; Therefore, this yellow metal is copper. Such an argument is called proof by mediate inference; because one cannot see directly that the yellow metal is copper; but it is admitted that any yellow metal is copper that turns green in vinegar, and we are shown that this yellow metal has that property. Now, however, it may occur to us, that the liquid in which the metal was dipped was not vinegar or not pure vinegar, and that the greenness was due to the impurity. Our friend must

thereupon show by some means that the vinegar was pure; and then his argument will be that, since nothing but the vinegar came in contact with the metal, the greenness was due to the vinegar; or, in other words, that contact with that vinegar was the cause of the metal turning green." Which of the following statements describes the author's conception of the term

"immediate inference"?

- a. An inference where the statement means only one of two things
- b. An inference that can be drawn from the contradicting parts of a statement
- c. An inference that can be made from only one statement or proposition
- d. An inference that requires another statement to prove it

33 : Fill in the blanks. Democracy is better _____ through the ballot box than it is through the crowding of main squares, which is a _____ image, but a misleading representation of the "people's will"

- a. focused, ineffective
- b. affected, moving
- c. effected, powerful
- d. realized, fleeting

34 : Each pair of capitalized words given below are followed by four pairs of words. Choose the pair that does not exhibit the relationship similar to that expressed in the capitalized pair.

WATER:FREEZE

- a. Wine:Age

b. Juice:Decant

c. Coffee:Brew

d. Blood:Clot

35 : An academic librarian, especially one who works primarily in a research consultation capacity, often encounters individuals who are seeking in-depth help with research projects that they struggle to explain. The number of concepts, interdependencies and assumptions involved in research projects today can make them difficult to define and discuss with other people. The multidisciplinary nature and globalization of many areas of research are forcing researchers to not only discuss but to collaborate with many others from different academic backgrounds and disparate physical locations. Many researchers struggle with project paralysis at various points along the way as they attempt to manage both the myriad of details and the bigger picture relationships and implications of their project. Several visual tools including concept mappers and

mind mappers are well suited to help advanced students, faculty, researchers and librarians to organize the ideas and knowledge throughout the various stages of complex research, from envisioning an idea to the early stages of actively researching and documenting research findings. What is the central subject of the passage?

- a. The difficulty that researchers face in the articulation of their ideas during collaborations
- b. How researchers, finding themselves in a multidisciplinary world, need to collaborate
- c. How mind maps and concept maps can help researchers
- d. Stages of research that a researcher has to go through

36 : "The extent to which proof is requisite to prove anything depends upon the present purpose. If our aim is general truth for its own sake, a systematic investigation is necessary; but if our object is merely to remove some occasional doubt that has occurred to ourselves or to others, it may be enough to appeal to any evidence that is admitted or not questioned. Thus, if a man doubts that some acids are compounds of oxygen, but grants that some compounds of oxygen are acids, he may agree to the former proposition when you point out that it has the same meaning as the latter, differing from it only in the order of the words. This is called proof by immediate inference. Again, suppose that a man holds in his hand a piece of yellow metal, which he asserts to be copper, and that we doubt this, perhaps suggesting that it is really gold. Then he may propose to dip it in vinegar; whilst we agree that, if it then turns green, it is copper and not gold. On trying this experiment the metal does turn green; so that we may put his argument in this way:— Whatever yellow metal turns green in vinegar is copper; This yellow metal turns green in vinegar; Therefore, this yellow metal is copper. Such an argument is called proof by mediate inference; because one cannot see directly that the yellow metal is copper; but it is admitted that any yellow metal is copper that turns green in vinegar, and we are shown that this yellow metal has that property. Now, however, it may occur to us, that the liquid in which the metal was dipped was not vinegar or not pure vinegar, and that the greenness was due to the impurity. Our friend must thereupon show by some means that the vinegar was pure; and then his argument will be that, since nothing but the vinegar came in contact with the metal, the greenness was due to the vinegar; or, in other words, that contact with that vinegar was the cause of the metal turning green." The function of the third paragraph is:

- a. To show the logic of how the metal is copper instead of gold
- b. To illustrate how proof by mediate inference is drawn out
- c. To illustrate the process of finding proof
- d. To illustrate how proof by immediate inference is drawn out

37 : "Cross the bridge when you come to it" is similar to the saying

- a. Take life as it comes
- b. Whether you do something or not, life is full of problems
- c. Worry about present problems - not those that may crop up in the future
- d. By shying away from problems, problems do not get solved.

38 : Arrange the following sentences in the correct order A. The idea, he said, is to develop a group of basic internet services that would be free of charge to use – 'a 911 for the internet. B. Providing a bundle of these free of charge to users will work like a gateway drug of sorts – users

who may be able to afford data services and phones these days just don't see the point of why they would pay for those data services. C. This would give them some context for why they are important, and that will lead them to paying for more services like this – or so the hope goes. D. 'These could be a social networking service like Facebook, a messaging service, maybe search and other things like weather.

a. BACD

b. ABCD

c. ADBC

d. DABC

39 : Spot the error There were only two commandos but each and every commando was equal to six policemen.

a. There were only two

b. commandos but each and every

c. commando was equal

d. to six policemen

40 : For each question below select the best word from the choices to fill in the blank

The death toll _____ the past ten days of stepped - up militant violence _____ more than 100.

a. In, Would be

b. Prior to, Has been

c. In, Had been

d. During, Has been

41 : A number of sentences are given below, which when properly sequenced, form a coherent paragraph. Each sentence is labeled with a letter. Choose the most logical order of sentences from among the four given choices to construct a paragraph.

A. Young speakers often feel timid and when they rise to speak, find their mind is blank, devoid of thought and expression.

B. Every orator went through the same experience of stage fright in the beginning, they too blundered and felt humiliated.

C. Initial failure should not discourage you.

D. This is nothing strange.

a. ADBC

b. ABCD

c. DABC

d. ACBD

42 : To a thoughtful mind, such a religion as that of Rome would give small satisfaction. Its legends were often childish or impossible; its teaching had little to do with morality. The Roman religion was in fact of the nature of a bargain: men paid certain sacrifices and rites, and the gods granted their favour, irrespective of right or wrong. In this case, all devout souls were thrown back upon philosophy, as they had been, though to a less extent, in Greece. There were under the early empire two rival schools which practically divided the field between them, Stoicism and Epicureanism. The ideal set before each was nominally much the same. The Stoics aspired to the repression of all emotion, and the Epicureans to freedom from all disturbance; yet in the upshot, the one has become a synonym of stubborn endurance, the other for an unbridled licence. With Epicureanism, we have nothing to do now, but it will be worthwhile to sketch the history and tenets of the Stoic sect. Zeno, the founder of Stoicism, was born in Cyprus at some date unknown, but his life may be said roughly to be between the years 350 and 250 B.C. Cyprus has been from time immemorial a meeting-place of the East and West, and although we cannot grant any importance to a possible strain of Phoenician blood in him (for the Phoenicians were no philosophers), yet it is quite likely that through Asia Minor he may have come in touch with the Far East. He studied under the cynic Crates, but he did not neglect other philosophical systems. After many years' study, he opened his own school in a colonnade in Athens called the Painted Porch, or Stoa, which gave the Stoics their name. The authors mentions the following except:

- a. How Roman religion had very little to do with morality
- b. Stoics aspired to be free from all emotion
- c. Zeno had Phoenician ancestry in some form
- d. Zeno's idea of Stoicism came from his teacher, the cynic Crates

43 : "The extent to which proof is requisite to prove anything depends upon the present purpose. If our aim is general truth for its own sake, a systematic investigation is necessary; but if our object is merely to remove some occasional doubt that has occurred to ourselves or to others, it may be enough to appeal to any evidence that is admitted or not questioned. Thus, if a man doubts that some acids are compounds of oxygen, but grants that some compounds of oxygen are acids, he may agree to the former proposition when you point out that it has the same meaning as the latter, differing from it only in the order of the words. This is called proof by immediate inference. Again, suppose that a man holds in his hand a piece of yellow metal, which he asserts to be copper, and that we doubt this, perhaps suggesting that it is really gold. Then he may propose to dip it in vinegar; whilst we agree that, if it then turns green, it is copper and not gold. On trying this experiment the metal does turn green; so that we may put his argument in this way:-- Whatever yellow metal turns green in vinegar is copper; This yellow metal turns green in vinegar; Therefore, this yellow metal is copper. Such an argument is called proof by mediate inference; because one cannot see directly that the yellow metal is copper; but it is admitted that any yellow metal is copper that turns green in vinegar, and we are shown that this yellow metal has that

property. Now, however, it may occur to us, that the liquid in which the metal was dipped was not vinegar or not pure vinegar, and that the greenness was due to the impurity. Our friend must thereupon show by some means that the vinegar was pure; and then his argument will be that, since nothing but the vinegar came in contact with the metal, the greenness was due to the vinegar; or, in other words, that contact with that vinegar was the cause of the metal turning green." Which of the following statements describes the author's conception of the term "mediate inference"?

- a. A conclusion that can only be drawn through inference

- b. An inference that can only be drawn from different parts of a statement
- c. An inference that can be drawn from the contradicting parts of a statement
- d. A proposition that depends for proof on two or more other propositions

44 : Select the correct alternative from the given choices

I get injured every time I am careless.

- a. I was not careless and I got injured
- b. I was not careless and I did not get injured**
- c. I did not get injured and I was careless
- d. None of the above

45 : The situation had put them in a 'A perfect storm' is similar to saying

- a. They got stuck in heavy rains
- b. They were in the worst possible situation**
- c. The situation had solved the problem for them
- d. They were awaiting the lull after the storm

46 : This question consists of an idea that is expressed in several possible ways. Choose that statement which expresses the idea most correctly.

- a. If he was to decide to go abroad, I would recommend him to go to the United States
- b. If he was to decide to go to abroad, I would recommend him to go to the United States
- c. If he were to decide to go abroad, I would recommend him to go to the United States
- d. If he were to decide to go to abroad, I would recommend him to go to the United States

47 : Each pair of capitalized words given below are followed by four pairs of words. Choose the pair that does not exhibit the relationship similar to that expressed in the capitalized pair.

CHRYsalis: BUTTERFLY

- a. Dog:Pup
- b. Owl:Night
- c. Tadpole:Frog

48 : In this question, a word with its meaning and usage is given. Select the word that is appropriate as a replacement to the word in the main sentence.

She told him that she was not impressed by his sophistry.

- a. Skills
- b. Charms
- c. Clever but false reasoning
- d. Novel ideas

49 : A number of sentences are given below, which when properly sequenced, form a coherent paragraph. Each sentence is labeled with a letter. Choose the most logical order of sentences from among the four given choices to construct a paragraph.

- A. The ancient universities of Nalanda and Taxila in India were the foremost centres of education.
- B. For the first time in the history of our national consciousness, concern has been voiced from different quarters regarding the expanse and depth of the deterioration of higher education.
- C. But, since then, we have rapidly slid and today we languish in economic, political and intellectual stages.
- D. There is certainly something seriously wrong when a country with a burgeoning populace of over a billion fails to produce a proportionate number of original thinkers, leaders, philosophers and quality students.

- a. BCDA
- b. CDBA
- c. ACBD

d. ABCD

50 : Nature that both success and failure are a part of life, in such a situation, it is best to remain from the outcome.

a. Assumes, Different

b. Implies, Focused

c. Dictates, Detached

d. Advises, Disconnected

51 : Choose the correct one A. I wish to have something to eat. B. Give him the work. C. As long as I was in India, I had wanted to do something for the country. D. I have travel since early this morning.

a. A only

b. B only

c. A & C

d. A & B

52 : Choose the correct one There have been doubts in weeks about the credibility of Presidential elections after it emerged that Yameen would be the only major candidate.

a. There have been doubts in weeks

b. about the credibility of Presidential elections after

c. it emerged that Yameen would be the only major candidate.

d. No Error

53 : I had to ___ her on the way she could ___ the accessories with the wall colour.

a. Complain :: Comply

b. Compliment :: Complement

c. Confide :: Confidence

d. Compliment :: Confuse

54 : Arrange the sentences in the correct order A. As "operating systems", Latin and French outlived the strategic pre-eminence of Rome and France. B. Nor will Chinese, Russian, or Indian culture soon shoulder aside the American version-high or low- whose draw is embodied by Harvard and Hollywood. C. Once a standard exists, it tends to perpetuate itself-just like the dollar, for all its ups and downs will not soon yield to the Euro or the Renminbi D. By such measures, no other rival, not even China, comes close to America, whatever the country's many familiar failings and riches of the rising rest"

a. ACBD

b. BADC

c. CBAD

d. CABD

55 : For all their liberality, many Europeans tend to be quite parochial.

a. Narrow - Minded

b. Brave

c. Patriotic

d. Old-Fashioned

56 : Read the statements carefully and answer the questions that follow - Whenever the Governor goes to Delhi, the CM is in Bangalore. Whenever the PCC Chief goes to Delhi, the CM also goes to Delhi; Whenever the CM and the Governor are at one place, the Deputy CM is not at that place.

If the CM is in Delhi, then which of the following statements can we conclude? I. The Governor is not in Delhi. II. The PCC chief is not in Bangalore. III. The Deputy CM is not in Bangalore.

- a. Only I
- b. Only I & II
- c. Only II & III
- d. All the three statements

57 : Choose the correct one A. Everyone complimented her for her good work. B. The place reeked of rotten eggshells. C. The criterions used to evaluate the candidates were flawed. D. It is hoped that as the medical fee gets withdrawn, more men will want to undertake the test.

- a. A
- b. B
- c. C
- d. D

58 : Arrange the sentences in the correct order A. Fintech now includes different sectors and industries such as education, retail banking, fundraising and nonprofit, and investment management to name a few. B. Fintech, the word, is a combination of "financial technology". C. When fintech emerged in the 21st Century, the term was initially applied to the technology employed at the back-end systems of established financial institutions. D. ?Since then, however, there has been a shift to more consumer-oriented services and therefore a more consumer-oriented definition.

- a. BDAC
- b. DCBA

c. DCAB

d. BCDA

59 : Read the statements carefully and answer the questions that follow - You cant blame the students if they resist the temptation to go astray. They find rank hypocrisy everywhere. They see the wide gulf between the great values taught in the class rooms and the outside world of elders that promote the sub-culture of corruption, greed, deceit and subtle violence. They cant reconcile these two extremes.

According to the author which of the following can be a solution to the above problem?

- a. We need to provide regular counselling services in schools or colleges to help students cope with the stresses on the campuses and in their lives after their academic life.
- b. We need to take steps in order to curb malpractices in the outside world of elders.

c. Schools should incorporate realism in their moral science classes and show the students that corruption is a way of life.

d. All of the above

60 : To a thoughtful mind, such a religion as that of Rome would give small satisfaction. Its legends were often childish or impossible; its teaching had little to do with morality. The Roman religion was in fact of the nature of a bargain: men paid certain sacrifices and rites, and the gods granted their favour, irrespective of right or wrong. In this case, all devout souls were thrown back upon philosophy, as they had been, though to a less extent, in Greece. There were under the early empire two rival schools which practically divided the field between them, Stoicism and Epicureanism. The ideal set before each was nominally much the same. The Stoics aspired to the repression of all emotion, and the Epicureans to freedom from all disturbance; yet in the upshot, the one has become a synonym of stubborn endurance, the other for an unbridled licence. With Epicureanism, we have nothing to do now, but it will be worthwhile to sketch the history and tenets of the Stoic sect. Zeno, the founder of Stoicism, was born in Cyprus at some date unknown, but his life may be said roughly to be between the years 350 and 250 B.C. Cyprus has been from time immemorial a meeting-place of the East and West, and although we cannot grant any importance to a possible strain of Phoenician blood in him (for the Phoenicians were no philosophers), yet it is quite likely that through Asia Minor he may have come in touch with the Far East. He studied under the cynic Crates, but he did not neglect other philosophical systems. After many years' study, he opened his own school in a colonnade in Athens called the Painted Porch, or Stoa, which gave the Stoics their name. What does the author mean by the line "Cyprus has been from time immemorial a meeting-place of the East and West"?

a. Cyprus was where trade between east and west took place

b. Cyprus was a melting pot of East and West cultures and philosophies at the time

c. Cyprus was at the intersection of east and west

d. Cyprus is a historical place that has seen eastern and western influences

61 : To a thoughtful mind, such a religion as that of Rome would give small satisfaction. Its legends were often childish or impossible; its teaching had little to do with morality. The Roman religion was in fact of the nature of a bargain: men paid certain sacrifices and rites, and the gods granted their favour, irrespective of right or wrong. In this case, all devout souls were thrown back upon philosophy, as they had been, though to a less extent, in Greece. There were under the early empire two rival schools which practically divided the field between them, Stoicism and Epicureanism. The ideal set before each was nominally much the same. The Stoics aspired to the repression of all emotion, and the Epicureans to freedom from all disturbance; yet in the upshot, the one has become a synonym of stubborn endurance, the other for an unbridled licence. With Epicureanism, we have nothing to do now, but it will be worthwhile to sketch the history and tenets of the Stoic sect. Zeno, the founder of Stoicism, was born in Cyprus at some date unknown, but his life may be said roughly to be between the years 350 and 250 B.C. Cyprus has been from

time immemorial a meeting-place of the East and West, and although we cannot grant any importance to a possible strain of Phoenician blood in him (for the Phoenicians were no philosophers), yet it is quite likely that through Asia Minor he may have come in touch with the Far East. He studied under the cynic Crates, but he did not neglect other philosophical systems. After many years' study, he opened his own school in a colonnade in Athens called the Painted Porch, or Stoa, which gave the Stoics their name. Choose a suitable title for this passage.

- a. A treatise on Stoicism & its role in our life
- b. Zeno, the founder of Stoicism and his early life
- c. Stoicism- its nature and origins

d. Roman philosophy and its origins in religion

62 : Which one is an incorrect usage of the word Arcane?

- a. A) The elderly teacher had an arcane way of teaching mathematics.
- b. B) Since Mary loved to bake, an arcane smell wafting through the house was of freshly baked bread or cakes in the oven.
- c. C) People always inquired why the identity of my grandfather was kept arcane.
- d. D) An arcane band was playing in an underground location.

63 : Research policy observers are increasingly concerned about the potential impact of current academic working conditions on mental health, particularly in PhD students. The aim of the current study is threefold. First, we assess the prevalence of mental health problems in a representative sample of PhD students in Flanders, Belgium. Second, we compare PhD students to three other samples: (1) highly educated in the general population; (2) highly educated employees; and (3) higher education students. Third, we assess those organizational factors relating to the role of PhD students that predict mental health status. Results based on 12 mental health symptoms (GHQ-12) showed that 32percent of PhD students are at risk of having or developing a common psychiatric disorder, especially depression. This estimate was significantly higher than those obtained in the comparison groups. Organizational policies were significantly associated with the prevalence of mental health problems. Especially work-family interface, job demands and job control, the supervisor's leadership style, team decision-making culture, and perception of a career outside academia are linked to mental health problems. What supports the conclusion that the author has come to in the passage?

- a. A significant sample of respondents has exhibited mental health issues
- b. A significant sample of respondents has exhibited mental health issues compared to other groups surveyed
- c. 32percent of PhD students surveyed have exhibited mental health issues
- d. 32percent of the PhD students surveyed have stated that academic working conditions have led to their mental health issues

64 : This question consists of an idea that is expressed in several possible ways. Choose that statement which expresses the idea most correctly.

- a. The gold chain that she selected has same weight as yours
- b. A gold chain that she selected has the same weight as yours
- c. Gold chain that she selected has the same weight as yours
- d. The gold chain that she selected has the same weight as yours

65 : Spot the error She had scarcely finished writing while she fell asleep.

- a. She had scarcely
- b. finished writing

c. while she fell

d. asleep.

66 : An academic librarian, especially one who works primarily in a research consultation capacity, often encounters individuals who are seeking in-depth help with research projects that they struggle to explain. The number of concepts, interdependencies and assumptions involved in research projects today can make them difficult to define and discuss with other people. The multidisciplinary nature and globalization of many areas of research are forcing researchers to not only discuss but to collaborate with many others from different academic backgrounds and disparate physical locations. Many researchers struggle with project paralysis at various points along the way as they attempt to manage both the myriad of details and the bigger picture relationships and implications of their project. Several visual tools including concept mappers and mind mappers are well suited to help advanced students, faculty, researchers and librarians to organize the ideas and knowledge throughout the various stages of complex research, from envisioning an idea to the early stages of actively researching and documenting research findings. Which of these can be inferred from the passage?

a. Researchers are starting to collaborate with those from other disciplines

b. Researchers often suffer from project paralysis

c. Visual tools such as concept and mind mappers are being increasingly used

d. All of the above

67 : Common stereotypes associate high-level intellectual ability (brilliance, genius, etc.) with men more than women. These stereotypes discourage women's pursuit of many prestigious careers; that is, women are underrepresented in fields whose members cherish brilliance (such as physics and philosophy). Here we show that these stereotypes are endorsed by, and influence the interests of, children as young as 6. Specifically, 6-year-old girls are less likely than boys to believe that members of their gender are "really, really smart." Also at age 6, girls begin to avoid activities said to be for children who are "really, really smart." These findings suggest that gendered notions of brilliance are acquired early and have an immediate effect on children's interests. The passage states that:

a. Early on, girls start to avoid activities based on stereotypes engendered by men

b. Children at age 6 start to show signs of being influenced by stereotypes about gender brilliance

c. Girls show a tendency to be influenced by gender brilliance stereotypes more than boys

d. Girls at the age of 6 avoid activities that need them to show brilliance

68 : An academic librarian, especially one who works primarily in a research consultation capacity, often encounters individuals who are seeking in-depth help with research projects that they struggle to explain. The number of concepts, interdependencies and assumptions involved in research projects today can make them difficult to define and discuss with other people. The multidisciplinary nature and globalization of many areas of research are forcing researchers to not only discuss but to collaborate with many others from different academic backgrounds and disparate physical locations. Many researchers struggle with project paralysis at various points along the way as they attempt to manage both the myriad of details and the bigger picture relationships and implications of their project. Several visual tools including concept mappers and mind mappers are well suited to help advanced students, faculty, researchers and librarians to organize the ideas and knowledge throughout the various stages of complex research, from

envisioning an idea to the early stages of actively researching and documenting research findings. Which of these can be inferred from the passage?

- a. Researchers are starting to collaborate with those from other disciplines
- b. Researchers often suffer from project paralysis
- c. Visual tools such as concept and mind mappers are being increasingly used
- d. All of the above

69 : The issue that appears germane to the present problem, merits an open debate.

- a. Linked
- b. Relevant
- c. Pertinent
- d. Akin

70 : "The extent to which proof is requisite to prove anything depends upon the present purpose. If our aim is general truth for its own sake, a systematic investigation is necessary; but if our object is merely to remove some occasional doubt that has occurred to ourselves or to others, it may be enough to appeal to any evidence that is admitted or not questioned. Thus, if a man doubts that some acids are compounds of oxygen, but grants that some compounds of oxygen are acids, he may agree to the former proposition when you point out that it has the same meaning as the latter, differing from it only in the order of the words. This is called proof by immediate

inference. Again, suppose that a man holds in his hand a piece of yellow metal, which he asserts to be copper, and that we doubt this, perhaps suggesting that it is really gold. Then he may propose to dip it in vinegar; whilst we agree that, if it then turns green, it is copper and not gold. On trying this experiment the metal does turn green; so that we may put his argument in this way:-- Whatever yellow metal turns green in vinegar is copper; This yellow metal turns green in vinegar; Therefore, this yellow metal is copper. Such an argument is called proof by mediate inference; because one cannot see directly that the yellow metal is copper; but it is admitted that any yellow metal is copper that turns green in vinegar, and we are shown that this yellow metal has that property. Now, however, it may occur to us, that the liquid in which the metal was dipped was not vinegar or not pure vinegar, and that the greenness was due to the impurity. Our friend must thereupon show by some means that the vinegar was pure; and then his argument will be that, since nothing but the vinegar came in contact with the metal, the greenness was due to the vinegar; or, in other words, that contact with that vinegar was the cause of the metal turning green." What does the author mean by the line "If our aim is general truth for its own sake"?

a. The Pursuit of truth

b. Passing interest

c. Morbid curiosity

d. Idle curiosity

71 : Stress can lead to _____ and _____ changes which exert negative effects on an individual.

a. Psychiatric, Physical

b. Psychometric, Physiographical

c. Psychopathic, Psychosomatic

d. Psychological, Physiological

72 : This question consists of an idea that is expressed in several possible ways. Choose that statement which expresses the idea most correctly.

a. The teacher is neither encouraged to be critical or to examine all the evidence before forming an opinion

b. The teacher is neither encouraged to be critical nor to examine all the evidence before forming an opinion

c. The teacher is not encouraged either to be critical or to examine all the evidence before forming an opinion

d. The teacher is either encouraged to be critical nor to examine all the evidence before forming an opinion

73 : Research policy observers are increasingly concerned about the potential impact of current academic working conditions on mental health, particularly in PhD students. The aim of the current study is threefold. First, we assess the prevalence of mental health problems in a representative sample of PhD students in Flanders, Belgium. Second, we compare PhD students to three other samples: (1) highly educated in the general population; (2) highly educated employees; and (3) higher education students. Third, we assess those organizational factors relating to the role of PhD students that predict mental health status. Results based on 12 mental health symptoms (GHQ-12) showed that 32 percentage of PhD students are at risk of having or developing a common psychiatric disorder, especially depression. This estimate was significantly higher than those obtained in the comparison groups. Organizational policies were significantly associated with the prevalence of mental health problems. Especially work-family interface, job demands and job control, the supervisor's leadership style, team decision-making culture, and perception of a career outside academia are linked to mental health problems. The authors mention the following except:

a. PhD students in Flanders, Belgium were studied

b. PhD students from Flanders Belgium were compared to other groups such as highly educated employees

c. PhD students were compared against higher education students as a control group

d. PhD students exhibited 12 mental health symptoms related to depression

74 : Spot the error There were only two commandos but each and every commando was equal to six policemen.

a. There were only two

b. commandos but each and every

c. commando was equal

d. to six policemen

75 : Einstein developed an____theory through his____and curious attitude.

a. Ingenious :: ingenuous

b. Genius :: Silly

c. Brilliant :: Childish

d. Excellent :: Gullible

76 : Spot the error She ordered certain girl to make entry into the Manager's office.

a. She ordered

b. certain girl to

c. make entry into

d. the Manager's office

77 : Read the statements carefully and answer the questions that follow - There is no dearth of good schemes, but the trouble lies in the half-hearted implementation of the programs and lack of motivation among school teachers and the poor infrastructural facilities. There is hardly any healthy contact between the teacher and the taught. Parents refuse to send their daughters to schools situated pretty far away from home for obvious security reasons.

According to the author which of the following could be a comprehensive solution to this problem? I. Conducting workshops to infuse new spirit and verve into the school teachers to improve their motivation levels.

II. A body to be constituted in order to ensure the strict implementation of the programs.

a. I Only

b. II Only

c. both I and II

d. neither I nor II

Data interpretation & Sufficiency

1 :

The following table was computed after a survey of 3,500 people. For each of the quantities, on an average a heavy user uses thrice as much as a light user

Product (% users)	Heavy users	Light users
Soaps (94%)	25%	25%
Shampoo (94%)	71%	29%
Cake mix (67%)	79%	21%
Towels (90%)	81%	19%
Cola (67%)	83%	17%
Beer (41%)	87%	13%

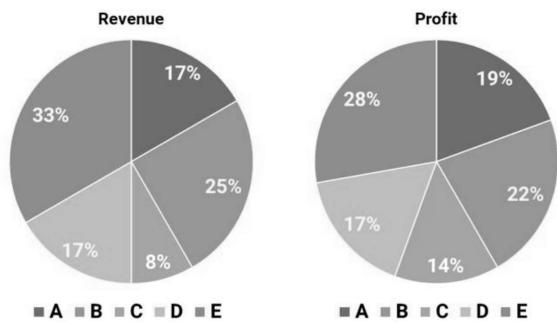
The number of heavy users of cake mix is what percentage of the number of heavy users of soap?

a. 76

b. 72.5

c. 78.5

d. 81

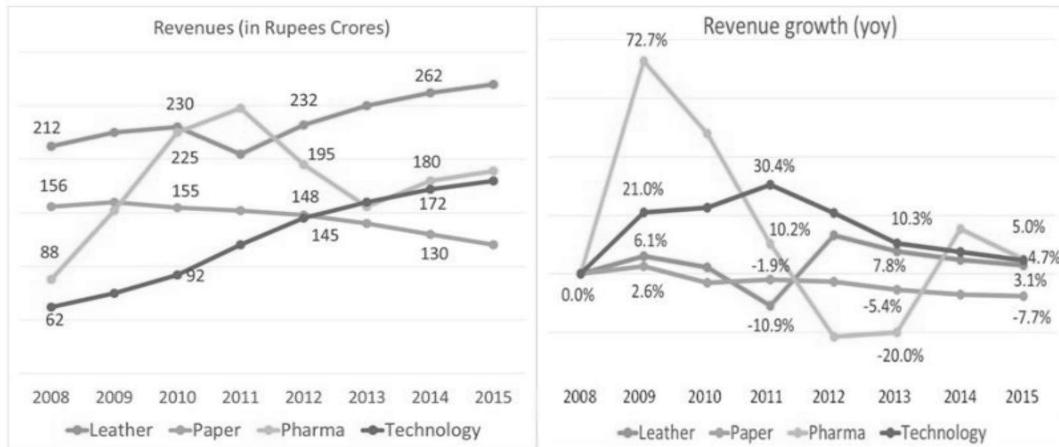


2 :

1. How much profit did Company A make?

- a. Rs 50 crores
- b. Rs. 25 crores
- c. Rs. 30 crores

d. Rs. 60 crores



3 :

4. The profit margins by division in the years 2014 and 2015 are given in the table below. Find the Y-O-Y percentage growth in profits in 2015.

a. -3%

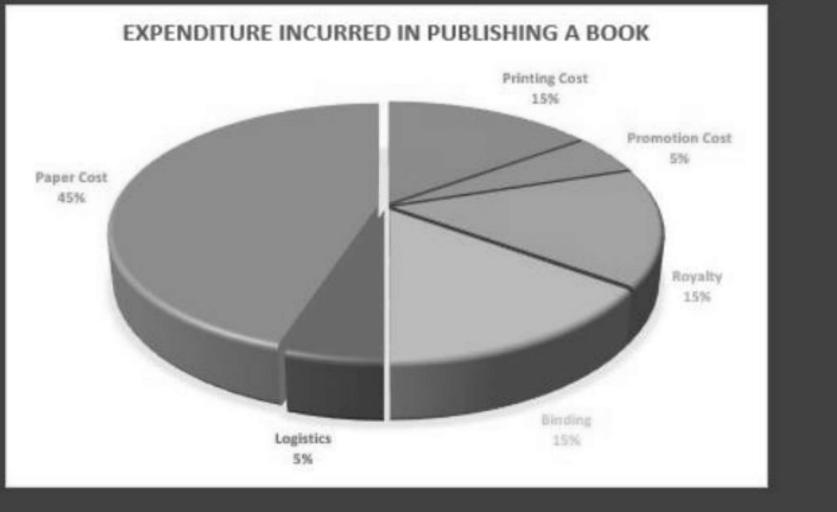
b. -6%

c. 2.40%

d. 0%

4 : 4. The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and answer the questions based on it. If 200 copies are published and the Logistics on them amounts to Rs. 100000, then what should be the selling price of the book so that the publisher can earn a profit of 25 percentage?

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



- a. 12500.0
- b. 13750.00000000002
- c. 11250.0
- d. 15000.0

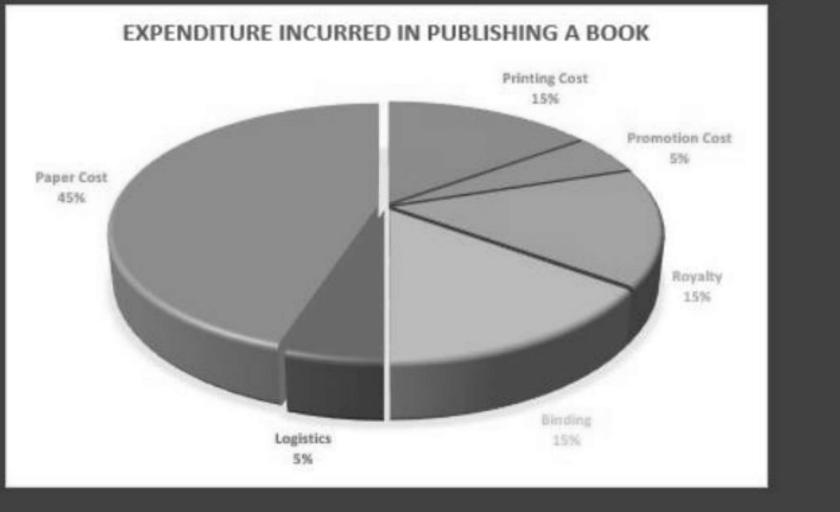
5 : For the following, a question will be followed by two statements. You have to decide whether the data provided in the statements are sufficient to answer the question and choose the appropriate option in the answers.

What is the percentage gain on the scooter? A. The scooter costs 20% less than a motorcycle. B. The scooter is older than the motorcycle.

- a. The question can be answered by using one of the statements alone, but cannot be answered by using the other statement alone.
- b. The question can be answered using either statement alone.
- c. The question can be answered using both statements together, but cannot be answered by using either statement alone.
- d. The question cannot be answered even by using both the statements together.

6 : 4. The following 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. If 200 copies are published and the Logistics on them amounts to Rs. 100000, then what should be the selling price of the book so that the publisher can earn a profit of 25percent?

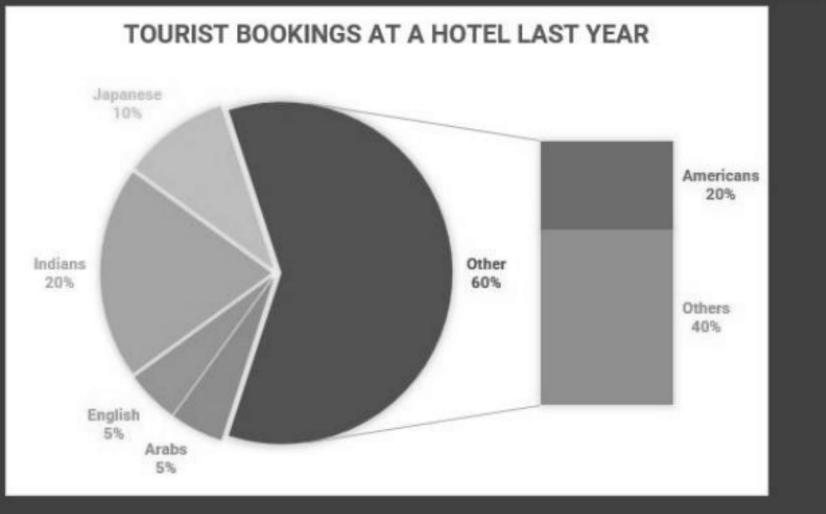
The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book.
Study the pie-chart and the answer the questions based on it.



- a. 12500.0
- b. 13750.000000000002
- c. 11250.0
- d. 15000.0

7 : 4. The following pie-chart shows the percentage distribution of the tourist bookings at a hotel last year. Study the pie-chart and the answer the questions based on it. There are 350 tourists, and the Americans amongst them paid Rs. 60000 last year. How much should the tourists pay on average to make 20 percent more this year?

The following pie-chart shows the percentage distribution of the tourist bookings at a hotel last year. Study the pie-chart and the answer the questions based on it.



a. 823.2

b. 1029.0

c. 926.1

8 : For the following, a question will be followed by two statements. You have to decide whether the data provided in the statements are sufficient to answer the question and choose the appropriate option in the answers.

A. The straight line joining Delhi and Calcutta subtends an angle of 60° at Nagpur, which is equidistant from Delhi and Calcutta. B. The triangle formed by Delhi, Nagpur and Calcutta covers an area of 93,581 sq. miles. Question complete ga ledu

- a. The question can be answered by using one of the statements alone, but cannot be answered by using the other statement alone.
- b. The question can be answered by using either statement alone.
- c. The question can be answered by using both the statements together, but cannot be answered by using either statement alone.
- d. The question cannot be answered even by using both the statements together.

9 :

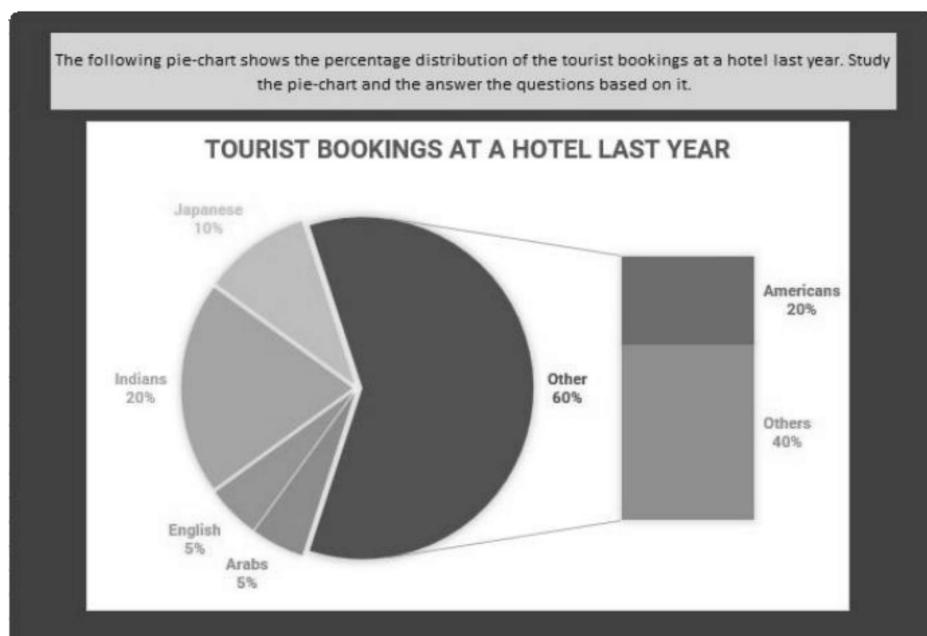
NATIONAL BANK						
UNAUDITED FINANCIAL RESULTS (PROVISIONAL) FOR THE QUARTER ENDED 30th SEPTEMBER 1990						
SL.No	Particular	Quarter ended	Quarter ended	Half Year ended	Half Year ended	Year ended
		30-09-1990	30-09-1989	30-09-1990	30-09-1989	31-03-1990 Audited
		INCOME				
1	Interest Earned	450.49	343.55	882.21	671.38	1458.04
	Other Income	44.88	28.41	76.86	55.5	138.45
	TOTAL	495.37	371.96	959.07	726.88	1596.49
		EXPENDITURE				

	Interest Expended	311.16	225.79	593.87	439.15	958.55
2	Operating Expenses	85.5	64.68	161.12	127.21	300.56
	Provision & Contingencies	39.6	31.2	79	63	127.38
	TOTAL	436.26	321.67	833.99	629.36	1386.49
3	Profits					
	Gross Profit	98.71	81.49	204.08	160.52	337.38
	Net Profit	59.11	50.29	125.08	97.52	210

What is the percentage increase in the total expenditure for the quarter ending 30th September 1990 over that for the previous quarter? Ans 33.17

- a. 35.6%
- b. 9.7%
- c. 32.5%
- d. None of these

10 : 2. The following pie-chart shows the percentage distribution of the tourist bookings at a hotel last year. Study the pie-chart and the answer the questions based on it. What is the central angle of the sector corresponding to the revenues earned from the Indians?



- a. 36.0
- b. 79.2
- c. 288.0
- d. 72.0

11 :

NATIONAL BANK**UNAUDITED FINANCIAL RESULTS (PROVISIONAL) FOR THE QUARTER ENDED 30th SEPTEMBER 1990**

SL.No	Particular	Quarter ended 30-09- 1990	Quarter ended 30-09- 1989	Half Year ended 30-09- 1990	Half Year ended 30-09- 1989	Year ended 31-03-1990 Audited
1	INCOME					

	Interest Earned	450.49	343.55	882.21	671.38	1458.04
	Other Income	44.88	28.41	76.86	55.5	138.45
	TOTAL	495.37	371.96	959.07	726.88	1596.49
EXPENDITURE						
2	Interest Expended	311.16	225.79	593.87	439.15	958.55
	Operating Expenses	85.5	64.68	161.12	127.21	300.56
	Provision & Contingencies	39.6	31.2	79	63	127.38
	TOTAL	436.26	321.67	833.99	629.36	1386.49
3	Profits					
	Gross Profit	98.71	81.49	204.08	160.52	337.38
	Net Profit	59.11	50.29	125.08	97.52	210

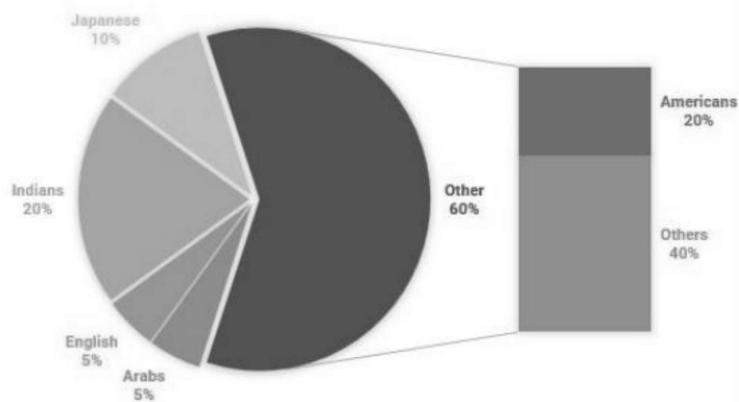
What is the percentage increase in the net profit for the half year ending 30th September 1990 over the corresponding period in 1989?

- a. 29.6%
- b. 39.7%
- c. 28.3%
- d. None of these

12 : 4. The following pie-chart shows the percentage distribution of the tourist bookings at a hotel last year. Study the pie-chart and the answer the questions based on it. There are 350 tourists, and the Americans amongst them paid Rs. 60000 last year. How much should the tourists pay on average to make 20 percentage more this year?

The following pie-chart shows the percentage distribution of the tourist bookings at a hotel last year. Study the pie-chart and the answer the questions based on it.

TOURIST BOOKINGS AT A HOTEL LAST YEAR



a. 823.2

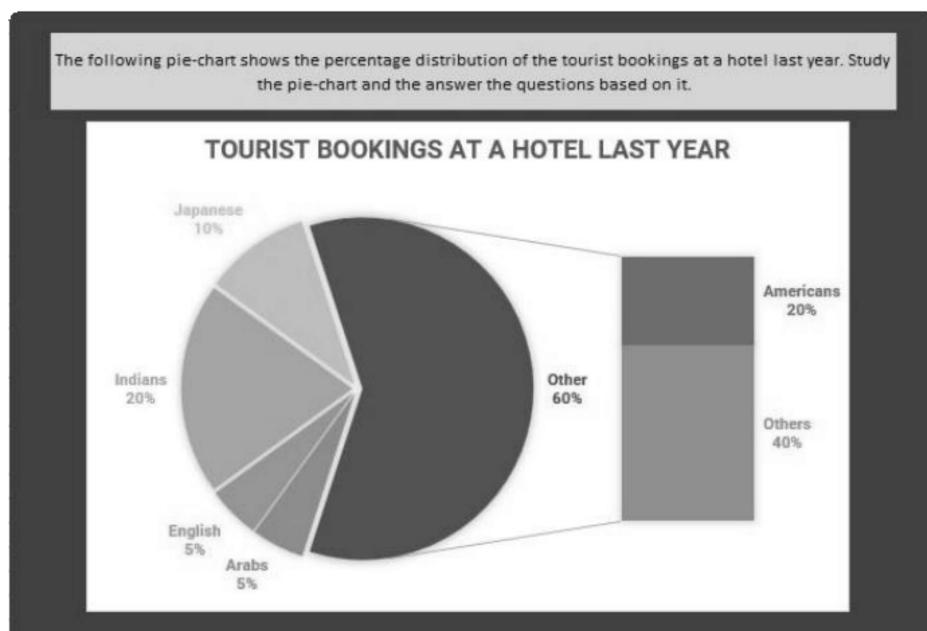
b. 1029.0

c. 926.1

d. 1234.8

13 : 5. The following pie-chart shows the percentage distribution of the tourist bookings at a hotel last year. Study the pie-chart and the answer the questions based on it. In percentage terms,

Arabs at the hotel last year were less than the Others by:

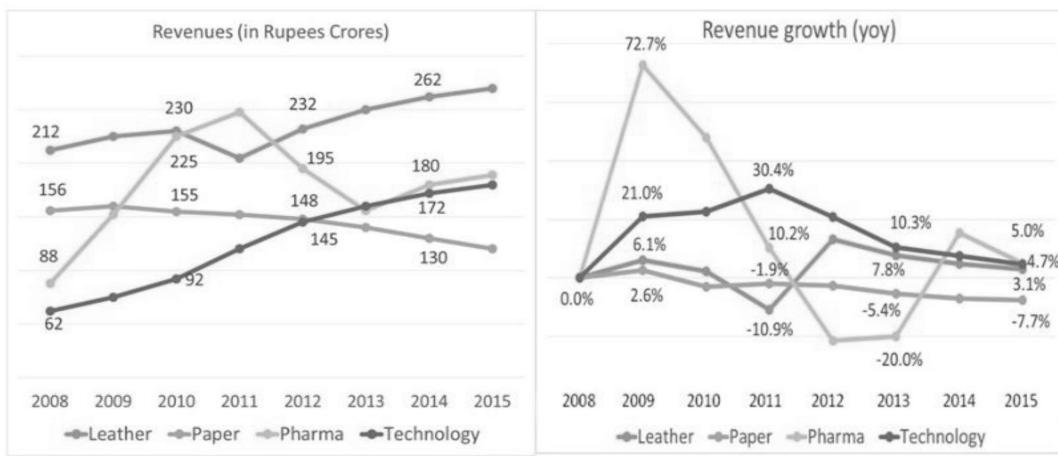


a. 70.0

b. 96.25000000000001

c. 87.5

d. 105.0



14 :

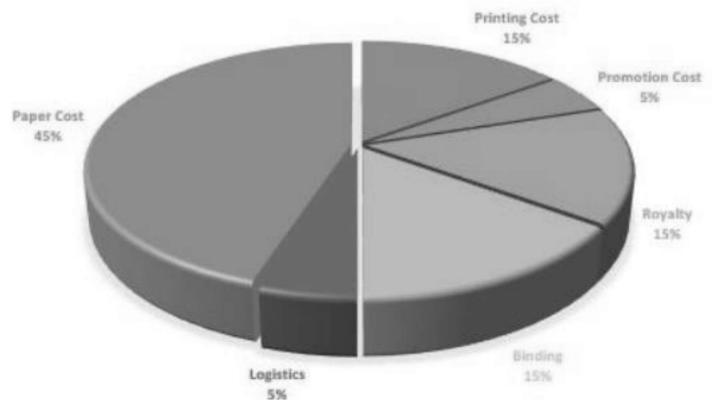
4. The profit margins by division in the years 2014 and 2015 are given in the table below. Find the Y-O-Y percentage growth in profits in 2015.

- a. -3%
- b. -6%
- c. 2.4%
- d. 0%

15 : 1. The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and answer the questions based on it. For a certain amount of books, if the publisher has to pay Rs. 20000 as Printing Cost, then what will be the amount of Promotion Cost to be paid for these books?

The following 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.

EXPENDITURE INCURRED IN PUBLISHING A BOOK

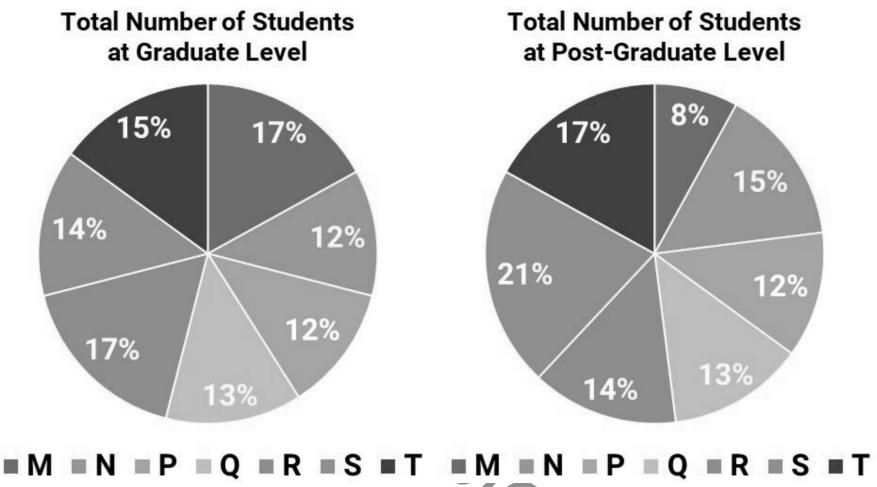


a. 60000.0

b. 6666.66666666667

c. 6000.0

d. 72000.0



16 :

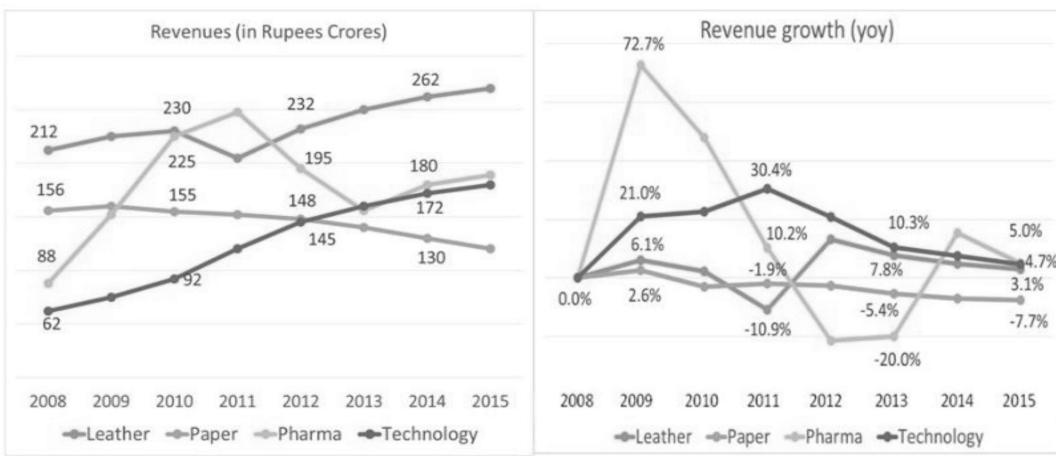
The following pie-charts show the distribution of students of graduate and post-graduate levels in seven different institutes in a town. 2. What is the ratio between the number of students studying at post-graduate and graduate levels respectively from institute S?

a. 14:19

b. 19:21

c. 17:21

d. 19:14 idi ans que incomplete



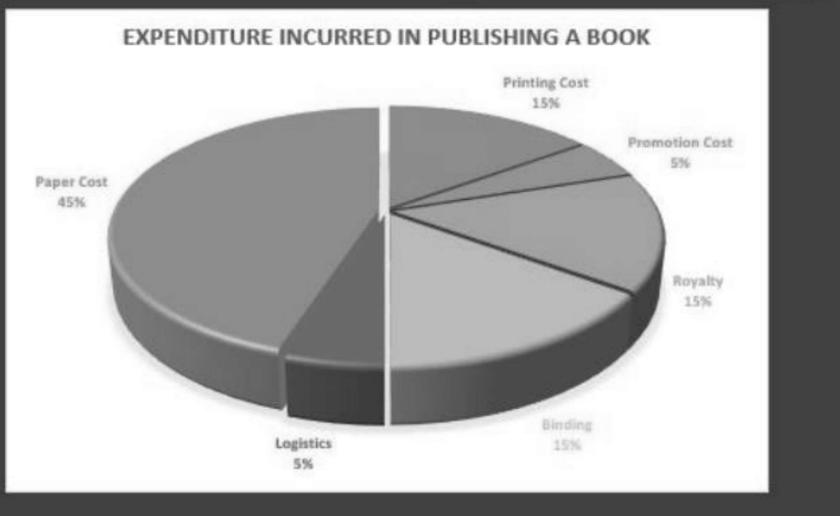
17 :

3. Which year saw the highest percentage growth in revenues overall

- a. 2008
- b. 2009
- c. 2011
- d. 2013

18 : 5. The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and answer the questions based on it. In percentage terms, Printing Cost on the book is less than the Paper Cost by:

The following 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.



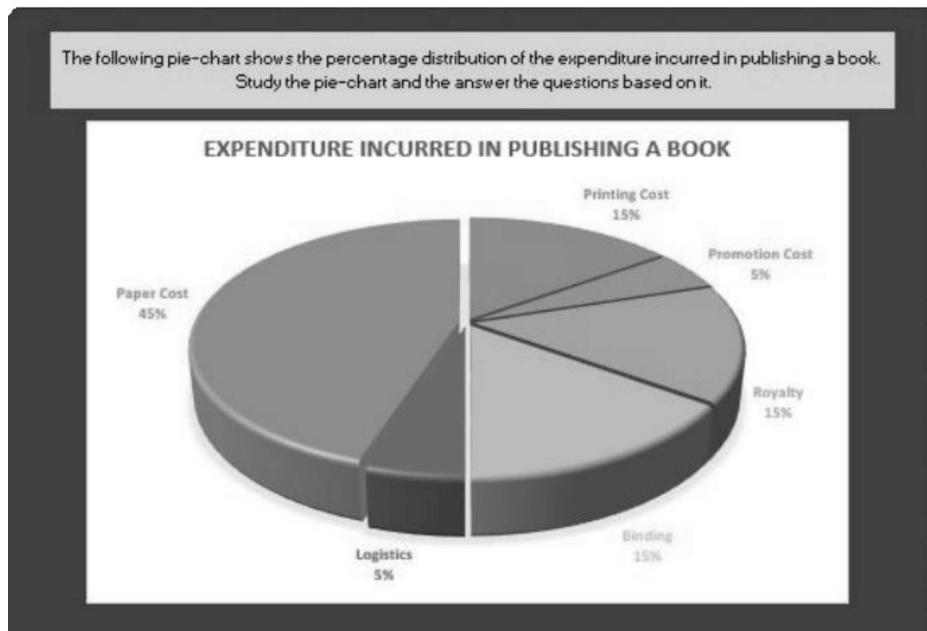
- a. 53.3333333333334

b. 66.66666666666667

c. 60.00000000000001

d. 80.0

19 : 6. The following 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. If the publisher reduces Printing Cost by 45 percent and increases Promotion Cost by 15 percent, what is the percentage change in cost?



a. 2.5

b. 2.75

c. -2.5

d. 3.0. Ans 6 option lo ledu

20 :

The following table was computed after a survey of 3,500 people. For each of the quantities, on an average a heavy user uses thrice as much as a light user

Product (% users)	Heavy users	Light users
Soaps (94%)	75%	75%
Shampoo (94%)	71%	29%
Cake mix (67%)	79%	21%
Towels (90%)	81%	19%
Cola (67%)	83%	17%
Beer (41%)	87%	13%

If the light users of soap on an average use six soaps in every 5 months, then what is the number of soaps used by the total surveyed people in a month?

a. 985

b. 9875

c. 7845

d. 14185

21 :

NATIONAL BANK						
UNAUDITED FINANCIAL RESULTS (PROVISIONAL) FOR THE QUARTER ENDED 30th SEPTEMBER 1990						
SL.No	Particular	Quarter ended	Quarter ended	Half Year ended	Half Year ended	Year ended
		30-09-1990	30-09-1989	30-09-1990	30-09-1989	31-03-1990 Audited
INCOME						
1	Interest Earned	450.49	343.55	882.21	671.38	1458.04
	Other Income	44.88	28.41	76.86	55.5	138.45
	TOTAL	495.37	371.96	959.07	726.88	1596.49
EXPENDITURE						
2	Interest Expended	311.16	225.79	593.87	439.15	958.55
	Operating Expenses	85.5	64.68	161.12	127.21	300.56
	Provision & Contingencies	39.6	31.2	79	63	127.38
	TOTAL	436.26	321.67	833.99	629.36	1386.49
Profits						
	Gross Profit	98.71	81.49	204.08	160.52	337.38

3	Net Profit	59.11	50.29	125.08	97.52	210
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For which of the following periods is the interest expended as a percentage of total expenditure the lowest?

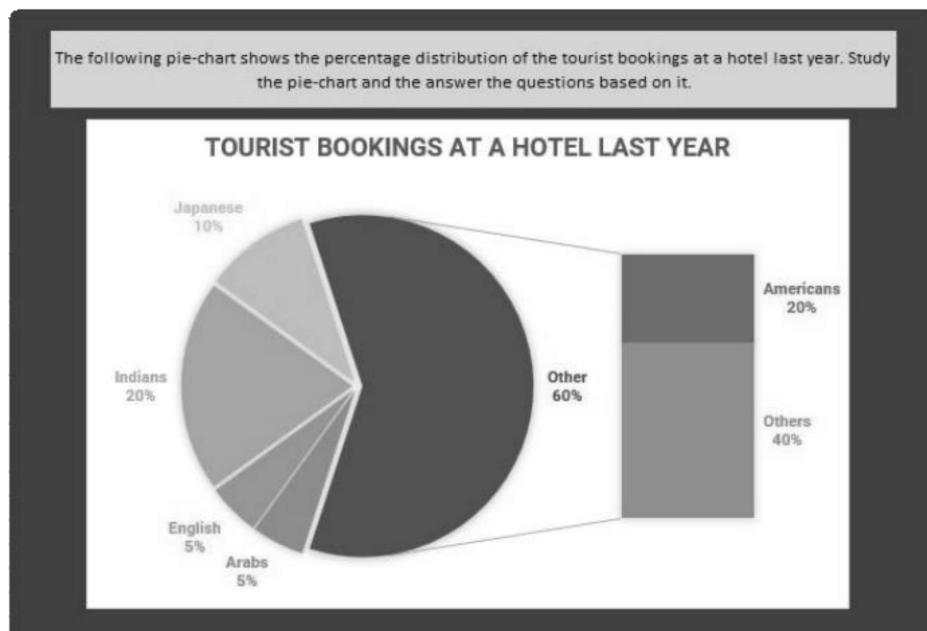
a. Quarter ended 30 - 09- 1990

b. Quarter ended 30-03-1989

c. Half Year ended 30-09-1990

d. Half year ended 30-03-1989

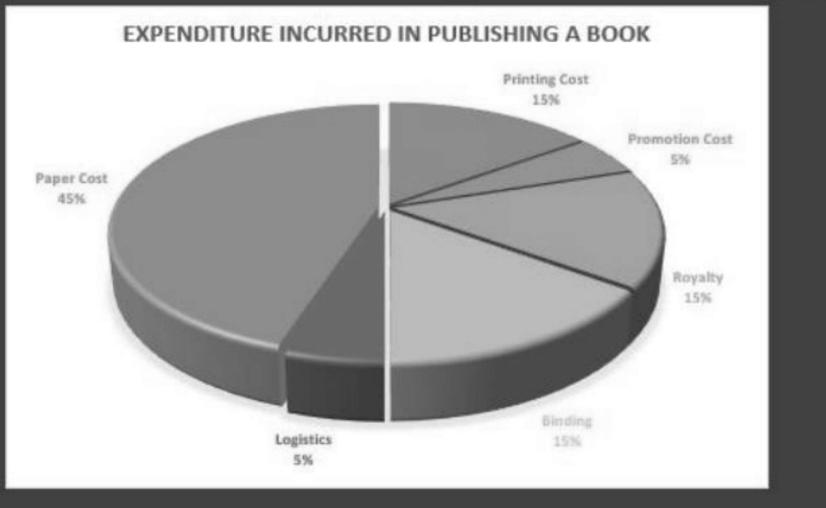
22 : 1. The following pie-chart shows the percentage distribution of the tourist bookings at a hotel last year. Study the pie-chart and the answer the questions based on it. If the hotel received Rs. 20000 from Arabs tourists, then what was received from the English?



- a. 20000.0
- b. 30000.0
- c. 18000.0
- d. 25000.0

23 : 5. The following 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. In percentage terms, Printing Cost on the book is less than the Paper Cost by:

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



a. 53.3333333333334

b. 66.66666666666667

c. 60.00000000000001

d. 80.0

24 : For the following, a question will be followed by two statements. You have to decide whether the data provided in the statements are sufficient to answer the question and choose the appropriate option in the answers.

A. p is even. B. p<q. What are the values of positive integers p and q, where $p + 2q < 8$?

a. The question can be answered by using one of the statements alone, but cannot be answered by using the other statement alone.

b. The question can be answered by using either statement alone.

c. The question can be answered by using both the statements together, but cannot be answered by using either statement alone.

d. The question cannot be answered even by using both the statements together.

25 : For the following, a question will be followed by two statements. You have to decide whether the data provided in the statements are sufficient to answer the question and choose the appropriate option in the answers.

A. Rajan got 4 medals but it is less than what James has got. B. Totally 4 players - Patrick, Rajan, James and Rajesh - shared all the gold medals of the competition and no two persons got the same number of medals. Has James got the highest number of gold medals in the competition where a total of 15 gold medals were given away?

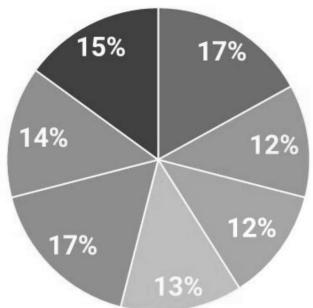
a. The question can be answered by using one of the statements alone, but cannot be answered by using the other statement alone.

b. The question can be answered by using either statement alone.

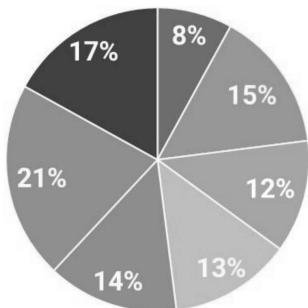
c. The question can be answered by using both the statements together, but cannot be answered by using either statement alone.

d. The question cannot be answered even by using both the statements together.

**Total Number of Students
at Graduate Level**



**Total Number of Students
at Post-Graduate Level**



■ M ■ N ■ P ■ Q ■ R ■ S ■ T ■ M ■ N ■ P ■ Q ■ R ■ S ■ T

26 :

The following pie-charts show the distribution of students of graduate and post-graduate levels in seven different institutes in a town. 4. What is the ratio between the number of students studying at the post-graduate level from institute S and the number of students studying at the graduate level from institute Q?

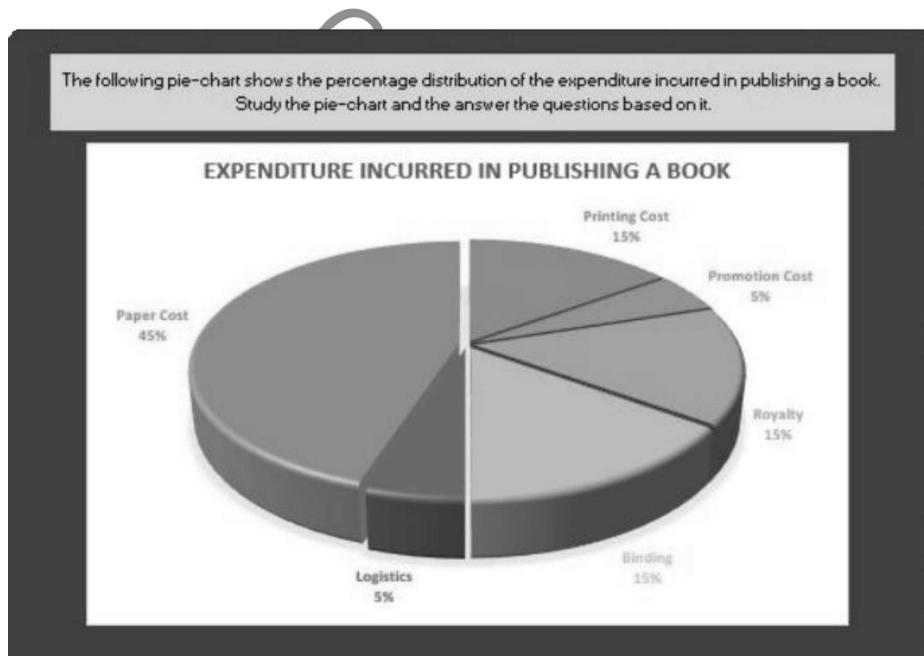
a. 13:19

b. 21:13

c. 13:08

d. 19:13

27 : 1. The following 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. For a certain amount of books, if the publisher has to pay Rs. 20000 as Printing Cost, then what will be amount of Promotion Cost to be paid for these books?



a. 60000.0

b. 6666.666666666667

c. 6000.0

d. 72000.0

28 : For the following, a question will be followed by two statements. You have to decide whether the data provided in the statements are sufficient to answer the question and choose the appropriate option in the answers.

A. Ram is 1/8000 of the height of Mount Everest. B. Ahmed is 6ft tall. Is Ahmed taller than Ram?

- a. The question can be answered by using one of the statements alone, but cannot be answered by using the other statement alone.
- b. The question can be answered by using either statement alone.
- c. The question can be answered by using both the statements together, but cannot be answered by using either statement alone.

d. The question cannot be answered even by using both the statements together.

29 :

NATIONAL BANK						
UNAUDITED FINANCIAL RESULTS (PROVISIONAL) FOR THE QUARTER ENDED 30th SEPTEMBER 1990						
SL.No	Particular	Quarter ended	Quarter ended	Half Year ended	Half Year ended	Year ended
		30-09-1990	30-09-1989	30-09-1990	30-09-1989	31-03-1990 Audited
INCOME						
1	Interest Earned	450.49	343.55	882.21	671.38	1458.04
	Other Income	44.88	28.41	76.86	55.5	138.45
	TOTAL	495.37	371.96	959.07	726.88	1596.49
EXPENDITURE						
2	Interest Expended	311.16	225.79	593.87	439.15	958.55
	Operating Expenses	85.5	64.68	161.12	127.21	300.56
	Provision & Contingencies	39.6	31.2	79	63	127.38
TOTAL						
3	Profits					
	Gross Profit	98.71	81.49	204.08	160.52	337.38
	Net Profit	59.11	50.29	125.08	97.52	210

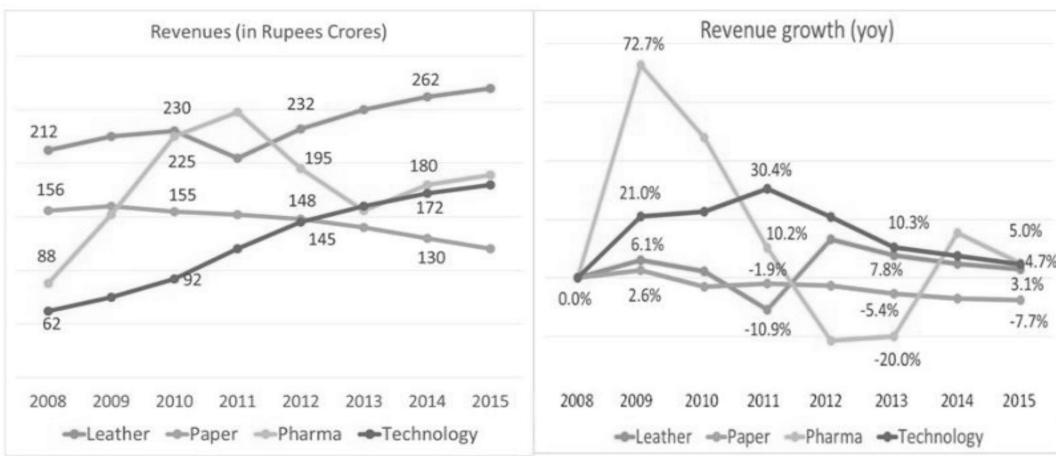
What is the approximate gross profit for the quarter ending 31st March 1990 for National Bank?

a. 637 crores

b. 142 crores

c. 375 crores

d. Cannot be determined



30 :

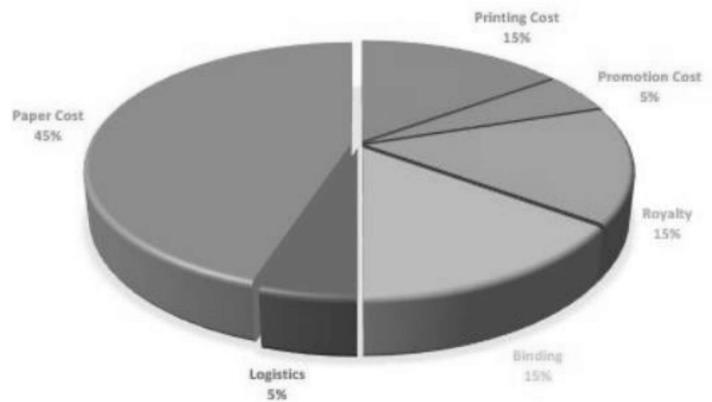
1. What was the total revenue in 2011?

- a. Rs. 640 Crores
- b. Rs 725 Crores
- c. Rs. 760 Crores
- d. Rs. 680 Crores

31 : 3. The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and answer the questions based on it. The price of the book is marked 40 percent above the cost price. If the marked price of the book is Rs. 2000, then what is the Binding per single copy of the book?

The following 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.

EXPENDITURE INCURRED IN PUBLISHING A BOOK



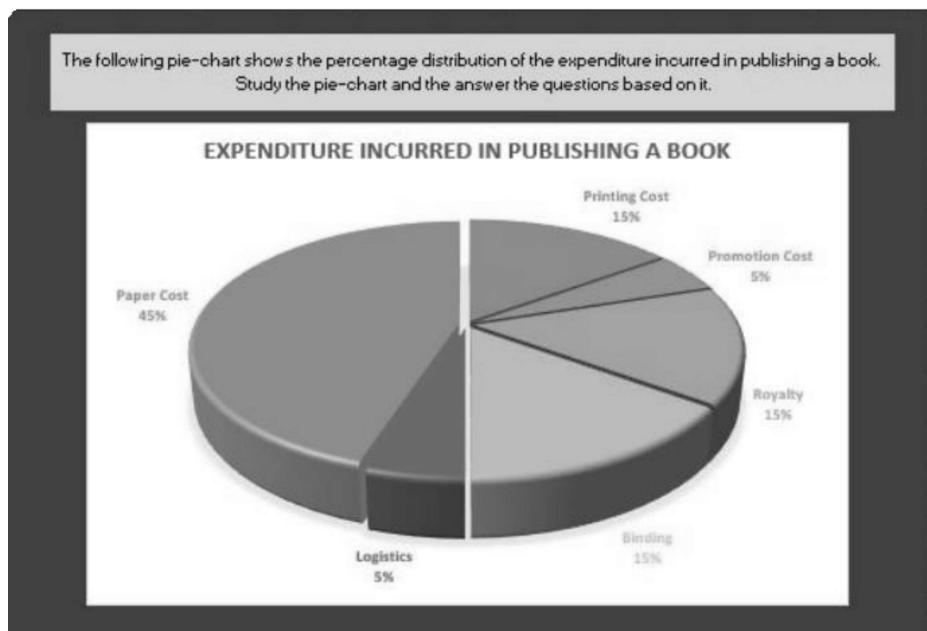
a. 171.20000000000002

b. 235.4

c. 192.6

d. 214.0

32 : 8. The following 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. The publisher increased Logistics by 20 percent but reduced Paper Cost to ensure he makes the same profit. How much did he reduce Paper Cost by?



a. 1.777777777777778

b. 2.444444444444446

c. 2.222222222222223

d. 2.666666666666665

33 : For the following, a question will be followed by two statements. You have to decide whether

the data provided in the statements are sufficient to answer the question and choose the appropriate option in the answers.

A. At 12:00 noon, an aeroplane casts a shadow at a distance of 2 kms from the base of Qutab Minar. B. The angle of depression from the aeroplane to the top of Qutab Minar is 30° . What is the height of Qutab Minar?

- a. The question can be answered by using one of the statements alone, but cannot be answered by using the other statement alone.
- b. The question can be answered by using either statement alone.
- c. The question can be answered by using both the statements together, but cannot be answered by using either statement alone.

d. The question cannot be answered even by using both the statements together.

34 : The following table gives the timings normally taken by Mr. Hare and Ms. Ostrich, to cover various consecutive stretches of distances in a 100 metre race. Both of them started the race together (unless otherwise specified in a question).

Hare		Ostrich	
Distance (in meters)	Time (in seconds)	Distance (in meters)	Time (in seconds)
25	3.5	20	28
10	2	25	32
10	1.5	20	24
30	3.5	10	10
15	1.5	10	8
10	0.5	15	10

After travelling for a distance of 75 metres, Mr. Hare felt hungry and darted off into a field next to the race track to fetch some carrots and then continued with the race. The questions in this set are independent of each other.

If Mr. Hare won the race by 15 metres, how long did he spend on the carrot hunting trip?

a. 89.5 seconds

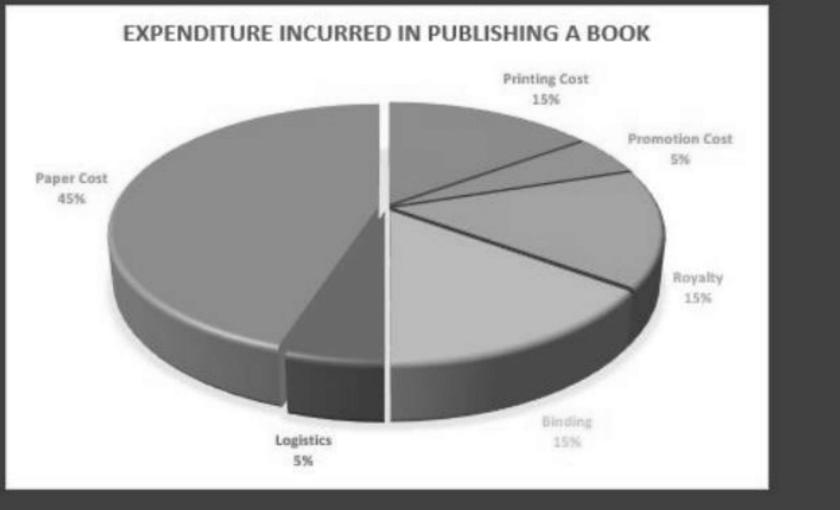
b. 99 seconds

c. 98 seconds

d. Cannot be determined

35 : 2. The following pie-chart shows the percentage distribution of the expenditure incurred in publishing a book. Study the pie-chart and answer the questions based on it. What is the central angle of the sector corresponding to the expenditure incurred on Royalty?

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



a. 27.0

b. 59.40000000000000

c. 54.0

d. 75.0

36 : For the following, a question will be followed by two statements. You have to decide whether the data provided in the statements are sufficient to answer the question and choose the appropriate option in the answers.

- A. As the height of a place from the mean sea level increases, the atmospheric pressure reduced**
- B. The road from A to B, which is 150 km long, is a straight line making an angle of $1\frac{1}{2}$ °E with the horizontal all along the route. Is the atmospheric pressure at place A greater than that at place B?**
- a. The question can be answered by using one of the statements alone, but cannot be answered by using the other statement alone.
 - b. The question can be answered by using either statement alone.
 - c. The question can be answered by using both the statements together, but cannot be answered by using either statement alone.
 - d. The question cannot be answered even by using both the statements together.