1. **Find the greatest number that will divide 355, 54 and 103 so as to leave the same remainder in each case**.
   1. 4
   2. 7
   3. 9
   4. 13

**Answer:**

**7**

**Explanation:**

*Required number = H.C.F. of |a -b|, |b – c| and |c – a|  
= H.C.F. of |355 – 54|, |54 – 103| and |103 – 355|  
= 301, 49, 252  
= 7*

1. **Six bells commence tolling together and toll at intervals of 3, 6, 9, 12, 15 and 18 seconds respectively. In 60 minutes, how many times do they toll together ?**
   1. 10
   2. 20
   3. 21
   4. 25

**Answer:**

**21**

**Explanation:**

*L.C.M. of 3, 6, 9, 12, 15 and 18 is 180.  
So, the bells will toll together after every 180 seconds(3 minutes).  
In 60 minutes, they will toll together (60/3)+1 = 21 times.*

1. **The smallest 5 digit number exactly divisible by 11 is:**
   1. 11121
   2. 11011
   3. 10010
   4. 11000

**Answer:**

**10010**

**Explanation:**

*The smallest 5-digit number 10000.*

*10000 when divided by 11, leaves a remainder of 1*

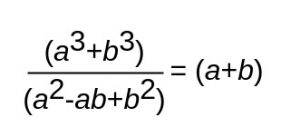
*Hence add (11 – 1) = 10 to 10000  
Therefore, 10010 is the smallest 5 digit number exactly divisible by 11*

1. [](https://media.geeksforgeeks.org/wp-content/uploads/20190409163541/WIPRO-Apti-Ques1.jpg)
   1. 474
   2. 534
   3. 500
   4. 368

**Answer:**

**474**

**Explanation:**

*As  
[](https://media.geeksforgeeks.org/wp-content/uploads/20190409163905/a-cube-plus-b-cube-formula.jpg)*

*Therefore the given expression = (121 + 353) = 474*

1. **What decimal of 10 hours is a minute?**
   1. 0.025
   2. 0.256
   3. 0.0027
   4. 0.00126

**Answer:**

**0.0027**

**Explanation:**

*Decimal of 10 hours in a minute  
= 10 / (60 x 60)  
= 0.0027*

1. **‘A’ can do a work in 10 days and ‘B’ in 15 days. If they work on it together for 3 days, then the work that is left is :**
   1. 10%
   2. 20%
   3. 40%
   4. 50%

**Answer:**

**50%**

**Explanation:**

*Let the total work to be done is, say, 30 units.*

*A does the work in 10 days,  
So A’s 1-day work = (30 / 10) = 3 units*

*B does the work in 15 days,  
So B’s 1-day work = (30 / 15) = 2 units*

*Therefore, A’s and B’s together 1-day work = (3 + 2) = 5 units*

*In 3 days,  
work done = 5 \* 3 = 15 units  
amount of work left = 30 – 15 = 15 units*

*Therefore the % of work left after 3 days = (15 / 30) \* 100% = 50%*

1. **A pump can fill a tank with water in 1 hour. Because of a leak, it took 1.5 hours to fill the tank. The leak can drain all the water of the tank in:**
   1. 2 hours
   2. 2.5 hours
   3. 3 hours
   4. 3.5 hours

**Answer:**

**3 hours**

**Explanation:**

*Pump fills the tank in 1 hour*

*Time taken by Pump to fill due to leak = 1.5 hour  
Therefore, in 1 hour, the amount of tank that the Pump can fill at this rate = 1 / (1.5) = 2/3*

*Amount of water drained by the leak in 1 hour = (1 – (2/3)) = 1/3*

*Therefore, the tank will be completely drained by the leak in (1 / (1/3)) = 3 hours*

1. **2 pipes A and B can fill a tank in 20 minutes and 30 minutes respectively. Both pipes are opened. The tank will be filled in just 15 minutes, if the B is turned off after:**
   1. 5 min
   2. 6.5 min
   3. 7 min
   4. 7.5 min

**Answer:**

**7.5 min**

**Explanation:**

*Let the total work to be done is, say, 60 units.*

*A fills the tank in 20 minutes,  
So A’s 1-minute work = (60 / 20) = 3 units*

*B fills the tank in 30 minutes,  
So B’s 1-minute work = (60 / 30) = 2 units*

*Therefore, A’s and B’s together 1-minute work = (3 + 2) = 5 units*

*Let the time when A and B both are opened be x minutes  
and Since the total time taken to fill the tank is 15 minutes*

*Therefore, an expression can be formed as  
5x + 3(15 – x) = 15  
=> x = 7.5*

*Therefore, the B is turned off after 7.5 minutes*

1. **In an IPL match, the current run rate of CSK is 4.5 in 6 overs. What should be the required run rate of CSK inorder to achieve the target of 153 against KKR?**
   1. 7
   2. 8
   3. 8.5
   4. 9

**Answer:**

**9**

**Explanation:**

*Current run rate = 4.5 in 6 overs  
Runs already made = 4.5 \* 6 = 27*

*Target = 153  
Runs still required = 153 – 27 = 126  
Overs left = 14*

*Therefore required run rate = 126 / 14 = 9*

1. **The average of 10 numbers is 0. Of them, how many can be smaller than zero, at most?**
   1. 0
   2. 1
   3. 9
   4. 10

**Answer:**

**9**

**Explanation:**

*Let the 9 numbers be smaller than zero and let their sum be ‘s’*

*Now, in order to get the average 0, the 10th number can be ‘-s’*

*Therefore, average = (s + (-s))/10 = 0/10 = 0*

**Verbal Reasoning**

**Directions to solve Question 1 and 2: Read each sentence to find out whether there is any grammatical error in it. The error, if any will be in one part of the sentence. If there is no error, the answer is ‘D’. Ignore the errors of punctuation, if any.**

1. Solve as per the direction given above
   1. How many times
   2. was you frustrated while looking out
   3. for a good collection of x
   4. programming/algorithm/interview questions?

**Answer:**

**b**

**Explanation:**

*were you frustrated while looking out*

1. Solve as per the direction given above
   1. What did you expected
   2. and what did you get?
   3. No error

**Answer:**

**A**

**Explanation:**

*What did you expect*

**Directions to solve Question 3 and 4: Choose the word from the options that can best express the meaning of the given word**

1. Short
   1. Limited
   2. Small
   3. Little
   4. Brief

**Answer:**

**D**

1. Clever
   1. Obstinate
   2. Handsome
   3. Canny
   4. Stout

**Answer:**

**C**

**Directions to solve Question 5 and 6: Choose the word from the options that can best complete the sentence meaningfully.**

1. GFG portal \_\_\_\_\_\_\_\_ created to provide well written, well thought and well-explained solutions for selected questions.
   1. is
   2. was
   3. has been
   4. have been

**Answer:**

**D**

1. He loves to solve programming problems \_\_\_\_\_ most efficient ways.
   1. in
   2. on
   3. over
   4. with

**Answer:**

**A**

**Directions to solve Question 7 and 8: Choose the word from the options that can best express the opposite of the given word**

1. Tiny
   1. Soft
   2. Average
   3. Enormous
   4. Weak

**Answer:**

**C**

1. Top
   1. Important
   2. Base
   3. Height
   4. Roof

**Answer:**

**B**

**Directions to solve Question 9 and 10: Choose the word from the options that can be substituted for the given phrase/sentence**

1. A name adopted by an author in his writings
   1. Nickname
   2. Pseudonym
   3. Nomenclature
   4. Title

**Answer:**

**B**

1. Study of birds
   1. Orology
   2. Optology
   3. Ophthalmology
   4. Ornithology

**Answer:**

**D**

**Logical Reasoning**

1. What will be the next number? 3, 5, 7, 11, 13, 17…….
   1. 21
   2. 19
   3. 23
   4. 20

**Answer:**

**19**

**Explanation:**

*3, 5, 7, 11, 13, 17 is a prime number series.  
Hence next prime number in this series is 19*

1. Find wrong number in series: 12, 25, 49, 99, 187, 395, 789
   1. 7789
   2. 187
   3. 99
   4. 49

**Answer:**

**187**

**Explanation:**

*12\*2+1 =25  
25\*2-1 = 49  
49\*2+1 = 99  
395\*2-1 = 789*

**Directions to solve Question 3 and 4: Each of the questions given below consists of a statement and/or a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statement(s) is/are sufficient to answer the given question.  
Read both the statements and Give answer  
(a) if the data in Statement I alone is sufficient to answer the question, while the data in Statement II alone is not sufficient to answer the question.  
(b) if the data in Statement II alone is sufficient to answer the question, while the data in Statement I alone is not sufficient to answer the question.  
(c) if the data in each Statement I and Statement II alone is sufficient to answer the question.  
(d) if the data even in both Statements I and II together are not sufficient to answer the question.  
(e) if the data in both Statements I and II together are necessary to answer the question.**

1. If x, y are integers, then (x2 + y2)1/2 is an integer?  
   Statement I – x2 + y2 is an integer  
   Statement II – x2 – 3y2 = 0
   1. (a)
   2. (b)
   3. (c)
   4. (d)
   5. (e)

**Answer:**

**(b) data in Statement II alone is sufficient to answer the question, while the data in Statement I alone is not sufficient to answer the question.**

**Explanation:**

*Given Statement II => x2 – 3y2 = 0  
=> x2 = 3y2*

*Putting the above in the question  
=> (x2 + y2)1/2  
=> (3y2 + y2)1/2  
=> (4y2)1/2  
=> ((2y)2)1/2  
=> (2y)  
which is an integer as y is an integer*

1. What day is 14th of a month?  
   Statement I – 3rd Saturday of the month is seventeenth  
   Statement II – 2nd last day of the month is Tuesday
   1. (a)
   2. (b)
   3. (c)
   4. (d)
   5. (e)

**Answer:**

**(a) data in Statement I alone is sufficient to answer the question, while the data in Statement II alone is not sufficient to answer the question.**

**Explanation:**

*Given Statement I, 17th, of the month, is Saturday.  
Therefore 14th will be Wednesday*

1. Consider the following phrase:  
   **Statement:** A line from Ram’s appointment letter is “you are hereby appointed as a systems engineer with a probation period of two years and your performance will be reviewed at the end of the period for confirmation.”  
   **Assumptions:**  
   **I.** At the time of appointment, the performance of one generally is not well known.  
   **II.** In the probation period, one tries to prove his worth generally.  
   Choose the correct option given below.
   1. If only assumption I is implicit
   2. If only assumption II is implicit.
   3. If either I or II is implicit.
   4. If neither I nor II is implicit.
   5. If both I and II are implicit.

**Answer:**

**(e) Both I and II are implicit.**

**Explanation:**

*Both the statements are implicit because since Ram is newly appointed in this company, so at the time of appointment, the performance of Ram is not well known. Also, they have to test performance over a span of time. So Ram (systems engineer) tries to prove his worth generally in the probation period. So, option (E) is correct.*

1. Consider the following phrase:  
   **Statement:** The price for safeda mango is terribly priced at Rs. 200/kg.  
   **Assumptions:**  
   **I.** The price for other types of mangoes are decently priced.  
   **II.** Rs 200 is a very big amount to pay for a safeda mango.  
   Choose the correct option given below.
   1. If only assumption I is implicit
   2. If only assumption II is implicit.
   3. If either I or II is implicit.
   4. If neither I nor II is implicit.
   5. If both I and II are implicit.

**Answer:**

**(b) Only assumption II is implicit.**

**Explanation:**

*The Assumption I might or might not be true according to the given Statement, but the Assumption II is definitely true. Hence only Assumption II is implicit.*

1. **Statements:**  
   I – All mangoes are bananas.  
   II – Some bananas are a globe.  
   III – All globe are square.  
   **Conclusions:**  
   I. Some mangoes are square.  
   II. No mango is square.  
   **Choose the correct option given below:**
   1. only conclusion I is true.
   2. only conclusion II is true.
   3. either conclusion I or conclusion II is true
   4. neither conclusion I nor conclusion II is true
   5. both conclusions I and II are true.

**Answer:**

**(c) either conclusion I or conclusion II is true**

**Explanation:**

1. **Statements:**  
   I – Some C are T  
   II – Some T are R  
   III – All R is M  
   **Conclusions:**  
   I. Some M are T  
   II. Some C are M  
   **Choose the correct option given below:**
   1. only conclusion I is true.
   2. only conclusion II is true.
   3. either conclusion I or conclusion II is true
   4. neither conclusion I nor conclusion II is true
   5. both conclusions I and II are true.

**Answer:**

**(a) only conclusion I is true.**

**Explanation:**

*Some C might or might not be M. But some M are definitely T.*

1. Find wrong number in series: 23, 29, 31, 33, 41, 43, 47
   1. 29
   2. 33
   3. 41
   4. 47

**Answer:**

**33**

**Explanation:**

*The given series is prime numbers from 23*

1. Find wrong number in series: 8, 24, 12, 36, 18, 54, 26
   1. 12
   2. 24
   3. 18
   4. 26

**Answer:**

**Explanation:**

*Mixture of two alternate series:  
8\*3=24  
24/2=12  
12\*3=36  
36/2=18  
18\*3=54  
54/2=27*

1. **Which is not the prime number?**.
   1. 43
   2. 57
   3. 73
   4. 101

**Answer:**

**57**

**Explanation:**

*A positive natural number is called prime number if nothing divides it except the number itself and 1.  
57 is not a prime number as it is divisible by 3 and 19 also, apart from 1 and 57.*

1. **If the average of four consecutive odd numbers is 12, find the smallest of these numbers?**
   1. 5
   2. 7
   3. 9
   4. 11

**Answer:**

**9**

**Explanation:**

*Let the numbers be x, x+2, x+4 and x+6  
Then (x + x + 2 + x + 4 + x + 6)/4 = 12  
∴ 4x + 12 = 48  
∴ x = 9*

1. **Two numbers are in the ratio of 2:9. If their H. C. F. is 19, numbers are:**
   1. 6, 27
   2. 8, 36
   3. 38, 171
   4. 20, 90

**Answer:**

**38, 171**

**Explanation:**

*Let the numbers be 2X and 9X  
Then their H.C.F. is X, so X = 19  
∴ Numbers are (2×19 and 9×19) i.e. 38 and 171*

1. **HCF of two numbers is 11 and their LCM is 385. If the numbers do not differ by more than 50, what is the sum of the two numbers ?**
   1. 132
   2. 35
   3. 12
   4. 36

**Answer:**

**132**

**Explanation:**

*Product of numbers = LCM x HCF  
=> 4235 = 11 x 385*

*Let the numbers be of the form 11m and 11n,  
such that ‘m’ and ‘n’ are co-primes.  
=> 11m x 11n = 4235  
=> m x n = 35  
=> (m, n) can be either of (1, 35), (35, 1), (5, 7), (7, 5).  
=> The numbers can be (11, 385), (385, 11), (55, 77), (77, 55).*

*But it is given that the numbers cannot differ by more than 50.  
Hence, the numbers are 55 and 77.  
Therefore, sum of the two numbers = 55 + 77 = 132*

1. **A person employed a group of 20 men for a construction job. These 20 men working 8 hours a day can complete the job in 28 days. The work started on time but after 18 days, it was observed that two-thirds of the work was still pending. To avoid penalty and complete the work on time, the employer had to employ more men and also increase the working hours to 9 hours a day. Find the additional number of men employed if the efficiency of all men is the same.**
   1. 40
   2. 44
   3. 64
   4. 80

**Answer:**

**44**

**Explanation:**

*Let the total work be 3 units and additional men employed after 18 days be ‘x’.  
=> Work done in first 18 days by 20 men working 8 hours a day = (1/3) x 3 = 1 unit  
=> Work done in last 10 days by (20 + x) men working 9 hours a day = (2/3) x 3 = 2 unit*

*Here, we need to apply the formula*

*M1 D1 H1 E1 / W1 = M2 D2 H2 E2 / W2,*

*where  
M1 = 20 men  
D1 = 18 days  
H1 = 8 hours/day  
W1 = 1 unit  
E1 = E2 = Efficiency of each man  
M2 = (20 + x) men  
D2 = 10 days  
H2 = 9 hours/day  
W2 = 2 unit*

*So, we have  
20 x 18 x 8 / 1 = (20 + x) x 10 x 9 / 2  
=> x + 20 = 64  
=> x = 44*

*Therefore, number of additional men employed = 44*

1. **Two outlet pipes A and B are connected to a full tank. Pipe A alone can empty the tank in 10 minutes and pipe B alone can empty the tank in 30 minutes. If both are opened together, how much time will it take to empty the tank completely?**
   1. 7 minutes
   2. 7 minutes 30 seconds
   3. 6 minutes
   4. 6 minutes 30 seconds

**Answer:**

**7 minutes 30 seconds**

**Explanation:**

*Let the capacity of the tank be LCM(10, 30) = 30 units.  
=> Efficiency of pipe A = 30 / 10 = 3 units / minute  
=> Efficiency of pipe A = 30 / 30 = 1 units / minute  
=> Combined efficiency of pipe A and pipe B = 4 units / minute*

*Therefore, time required to empty the tank  
if both pipes work = 30 / 4 = 7 minutes 30 seconds*

1. **Three pipes A, B and C are connected to a tank. Working alone, they require 10 hours, 20 hours and 30 hours respectively. After some time, A is closed and after another 2 hours, B is also closed. C works for another 14 hours so that the tank gets filled completely. Find the time (in hours) after which pipe A was closed.**
   1. 1
   2. 1.5
   3. 2
   4. 3

**Answer:**

**2**

**Explanation:**

*Let the capacity of the tank be LCM (10, 20, 30) = 60  
=> Efficiency of pipe A = 60 / 10 = 6 units / hour  
=> Efficiency of pipe B = 60 / 20 = 3 units / hour  
=> Efficiency of pipe C = 60 / 30 = 2 units / hour*

*Now, all three work for some time, say ‘t’ hours.  
So, B and C work for 2 more hours after ‘t’ hours  
and then, C works for another 14 hours.*

*=> Combined efficiency of pipe A, pipe B and pipe C = 11 units / hour  
=> Combined efficiency of pipe B and pipe C = 5 units / hour*

*So, we have 11 x t + 5 x 2 + 14 x 2 = 60  
=> 11 t + 10 + 28 = 60  
=> 11 t = 60 – 38  
=> 11 t = 22  
=> t = 2*

*Therefore, A was closed after 2 hours.*

1. **Two cars with speed of 15 kmph and 30 kmph respectively are 100 km apart and face each other. The distance between them 5 minutes before crossing is**
   1. 2.75
   2. 3.75
   3. 4.75
   4. 5.75

**Answer:**

**3.75**

**Explanation:**

*As the two cars are moving towards each other,  
their relative speed will be = 15+30 = 45 kmph.*

*The distance between them 5 minutes before crossing  
will be equal to the distance travelled by their relative speed in 5 minutes,  
i.e. Required distance = Relative speed (in km per min) \* time (in minutes) = (45/60)\*5 = 3.75 km.*

1. **If Geeta can give a start of 100 m of distance or 20 s of time to her friend Meena in a race of 1000 meters. How much time Geeta will take to cover the 1000 meters?**
   1. 200 sec
   2. 160 sec
   3. 180 sec
   4. 140 sec

**Answer:**

**180 sec**

**Explanation:**

*That means Meena will cover 100 m in 20 sec  
=> meena can cover 1000 m in = 200 secs  
Geeta can give a start of 100 m or 20 sec to Meena  
=> Geeta will take 20 sec less than Meena  
=> Geeta will take 180 sec to cover 1000 meters.*

1. **A boatman takes 3 hours 45 minutes to travel 15 km downstream and takes 2 hours 30 minutes to travel 5 km upstream of a river. What is the speed of the stream of the river in km/h?**
   1. 2 km/h
   2. 1 km/h
   3. 6 km/h
   4. 4 km/h

**Answer:**

**1 km/h**

**Explanation:**

*Downstream:  
Time taken = 3 + 45/60 = 3 + 3/4 = 15/4 h.  
Distance covered = 15 km.  
Downstream Speed = 15 / (15/4) = 4 km/h.*

*Upstream:  
Time taken = 2 + 30/60 = 2 + 1/2 = 5/2 h.  
Distance covered = 5 km.  
Upstream Speed = 5 / (5/2) = 2 km/h.*

*We know, speed of stream = 1/2 (Downstream Speed – Upstream Speed) = 1/2 (4-2) = 1 km/h.*

**Verbal Reasoning**

1. **Re-arrange the parts of the sentence so as to make a meaningful sentence.  
   A) The prime minister  
   B) with the guards  
   C) along  
   D) has arrived**
   1. ABCD
   2. ACBD
   3. ADBC
   4. ADCB

**Answer:**

**ADCB**

**Explanation:**

*The prime minister has arrived along with the guards*

1. **Re-arrange the parts of the paragraph so as to make a meaningful passage.  
   A) Infact, his belief was that customers are the origin, the source of money any company has.  
   B) The owner of Walmart, Sam Walton, built his empire on one principle – Customer is the God.  
   C) So it is not the company which pays, the customer does.  
   D) The customer thus has the right to fire anybody in the company, from a salesman to the chairman.**
   1. ABCD
   2. BACD
   3. BADC
   4. ACBD

**Answer:**

**BACD**

**Explanation:**

*The owner of Walmart, Sam Walton, built his empire on one principle – Customer is the God.  
Infact, his belief was that customers are the origin, the source of money any company has.  
So it is not the company which pays, the customer does.  
The customer thus has the right to fire anybody in the company, from a salesman to the chairman.*

1. **Find the part of the sentence that is incorrect in usage :  
   A) Agitated over the delay in getting arrears,  
   B) factory workers protested against the president  
   C) when he reaches the factory.  
   D) No Error**
   1. A
   2. B
   3. C
   4. D
   5. No Error

**Answer:**

**C**

**Explanation:**

*Correct: when he reached the factory*

1. **Select the option that replaces the error (underlined) most appropriately  
   Sentence – It has been found by the researchers that children with high blood sugar are at increase risk for developing heart problems.  
   A) were at increased risk  
   B) have high risk  
   C) are increasing riskly  
   D) No correction required**
   1. A
   2. B
   3. C
   4. D
   5. No Error

**Answer:**

**A**

1. **Select a word from the given options that fit the blank most appropriately.**

**Statement: Drugs and Alcohol \_\_\_\_ together to \_\_\_\_ the risk of cancer in both men and women.**

* 1. result, aggravate
  2. act, increase
  3. mix, lower
  4. put, arrest

**Answer:**

**B**

1. **In his first public speech, the newly elected defence minister said that leaks in defence matters could potentially \_\_\_\_ military operations.**
   1. disturb
   2. strengthen
   3. jeopardize
   4. promote

**Answer:**

**C**

1. **Select the most suitable word that can be replaced with the highlighted word to keep the meaning of the statement the same.**

**Statement: Many times in history, humans have changed their mode of communication in the society.**

* 1. Evolved
  2. Destroyed
  3. Altered
  4. Pledged

**Answer:**

**C**

1. **Select the correct SYNONYM for:  
   Together**
   1. Common
   2. Obstinate
   3. Same
   4. Jointly

**Answer:**

**D**

1. **Select the correct SYNONYM for:  
   Almost**
   1. Crafty
   2. Nearly
   3. Relevant
   4. Summary

**Answer:**

**B**

1. **Select the correct ANTONYM for:  
   Arise**
   1. Appear
   2. Dive
   3. Occur
   4. Emerge

**Answer:**

**B**

**Logical Reasoning**

1. **Find wrong number in series:  
   2, 3, 6, 0, 8, -3, 14, -6**
   1. 3
   2. 0
   3. 8
   4. 3

**Answer:**

**C**

**Explanation:**

*Two alternate series:  
2 + 4 = 6,  
3 – 3 = 0  
6 + 4 = 10,  
0 – 3 = -3  
10 + 4 = 14  
-3 – 3 = -6*

1. 9848 x 125 = ?
   1. 1232000
   2. 1242000
   3. 1231000
   4. 1233000

**Answer:**

**1231000**

**Explanation:**

*9848 x 125  
= 9848 x 53  
= 9848 x (10 / 2) 3  
= 9848 x (103 / 23)  
= 9848 x (1000/8)  
= 1231000*

**Directions to solve Question 3 and 4: Each of the questions given below consists of a statement and/or a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statement(s) is/are sufficient to answer the given question.  
Read both the statements and Give answer  
(a) if the data in Statement I alone is sufficient to answer the question, while the data in Statement II alone is not sufficient to answer the question.  
(b) if the data in Statement II alone is sufficient to answer the question, while the data in Statement I alone is not sufficient to answer the question.  
(c) if the data in each Statement I and Statement II alone is sufficient to answer the question.  
(d) if the data even in both Statements I and II together are not sufficient to answer the question.  
(e) if the data in both Statements I and II together are necessary to answer the question.**

1. **Is x + y = 0?  
   Statement I – x.y < 0  
   Statement II – x2 = y2**
   1. (a)
   2. (b)
   3. (c)
   4. (d)
   5. (e)

**Answer:**

**(e) if the data in both Statements I and II together are necessary to answer the question.**

**Explanation:**

*For x + y = 0, there are 2 cases:*

*Case 1:  
x and y are of opposite sign.  
This can be inferred from x.y < 0 Case 2: x = y = 0 This can be inferred from x2 = y2*

*Hence the data in both Statements I and II together  
are necessary to answer the question.*

1. **What is the probability that x3 – 8 = 0 when x is selected from a set of 8 integers?  
   Statement I. The smallest number in the set is -11  
   Statement II. The arithmetic mean of the set is 1/8.**
   1. (a)
   2. (b)
   3. (c)
   4. (d)
   5. (e)

**Answer:**

**(d) if the data even in both Statements I and II together are not sufficient to answer the question.**

1. Consider the following phrase:  
   **Statement:** All C are J.  
   All J are B.  
   No B is R.  
   **Conclusions:**  
   **I.** All B are C.  
   **II.** Some J are C  
   **Choose the correct option given below:**
   1. only conclusion I is true.
   2. only conclusion II is true.
   3. either conclusion I or conclusion II is true
   4. neither conclusion I nor conclusion II is true
   5. both conclusions I and II are true.

**Answer:**

**(b) only conclusion II is true.**

**Explanation:**

*All B are not C*

1. Consider the following phrase:  
   **Statement:** It is advantageous to start schooling of child at the age of 5 or so.  
   **Assumptions:**  
   **I.** At the age of the child reaches appropriate level of development and is ready to learn.  
   **II.** After 6 yrs of age schools do not admit children  
   Choose the correct option given below.
   1. If only assumption I is implicit
   2. If only assumption II is implicit.
   3. If either I or II is implicit.
   4. If neither I nor II is implicit.
   5. If both I and II are implicit.

**Answer:**

**(a) Only assumption I is implicit**

1. Consider the following phrase:  
   **Statement:** Medicine M is a drug which is causing ripples in the medical field.  
   **Assumptions:**  
   **I.** M is not a great drug  
   **II.** No other drug is causing ripples in the medical field  
   Choose the correct option given below.
   1. If only assumption I is implicit
   2. If only assumption II is implicit.
   3. If either I or II is implicit.
   4. If neither I nor II is implicit.
   5. If both I and II are implicit.

**Answer:**

**(a) Only assumption I is implicit**

1. **Statements:**  
   I – Some S are L  
   II – Some C are P  
   III – All P is R  
   **Conclusions:**  
   I. Some P are L  
   II. Some C are R  
   **Choose the correct option given below:**
   1. only conclusion I is true.
   2. only conclusion II is true.
   3. either conclusion I or conclusion II is true
   4. neither conclusion I nor conclusion II is true
   5. both conclusions I and II are true.

**Answer:**

**(d) neither conclusion I nor conclusion II is true**

1. Find wrong number in series: 4, 5, 7, 12, 19, 35
   1. 12
   2. 19
   3. 35
   4. 7

**Answer:**

**12**

**Explanation:**

*4+20 = 5  
5+21 = 7  
7+22 = 11  
11+23 = 19  
19+24 = 35*

1. Find wrong number in series: 2, 8, 12, 20, 30, 42, 56, 72
   1. 8
   2. 20
   3. 42
   4. 72

**Answer:**

**8**

**Explanation:**

*2+4=6,  
6+6=12,  
12+8=20,  
20+10=30,  
30+12=42,  
42+14=56,  
56+16=72*

1. **If the average of 5 consecutive even numbers is 10, find the middle number?**
   1. 4
   2. 8
   3. 2
   4. 10

**Answer:**

**10**

**Explanation:**

*Let the five consecutive even numbers be  
x-4, x-2, x, x+2, x+4*

*Average of these = ((x-4)+(x-2)+(x)+(x+2)+(x+4))/5 = x  
Given average = 10*

*Therefore x = 10*

1. **Two numbers are in the ratio of 2:9. If their H. C. F. is 19, numbers are:**
   1. 6, 27
   2. 8, 36
   3. 38, 171
   4. 20, 90

**Answer:**

**38, 171**

**Explanation:**

*Let the numbers be 2X and 9X  
Then their H.C.F. is X, so X = 19  
=> Numbers are (2×19 and 9×19) i.e. 38 and 171*

1. **Three friends started running together on a circular track at 8:00:00 am. Time taken by them to complete one round of the track is 15 min, 20 min, 30 min respectively. If they run continuously without any halts, then at what time will they meet again at the starting point for the fourth time ?**
   1. 8:30:00 am
   2. 9:00:00 pm
   3. 12:00:00 pm
   4. 12:00:00 am

**Answer:**

**12:00:00 pm**

**Explanation:**

*LCM (15, 20, 30) = 60  
=> They meet at the starting point after every 60 min, i.e., after every 1 hour.  
Therefore, they will meet at the starting point for the fourth time after 4 hours, i.e., at 12:00:00 pm.*

1. **Two friends A and B were employed to do work. The initial deadline was fixed at 24 days. Both started working together but after 20 days, A left the work and the whole work took 30 days to complete. In how much time can B alone can do the work?**
   1. 40
   2. 50
   3. 60
   4. 70

**Answer:**

**60**

**Explanation:**

*Let the total work be 24 units. It is given that A and B together can do the work in 24 days.  
=> Combined efficiency of A and B = 24/24 = 1 unit / day  
=> Work done in 20 days = 20 units  
=> Work left = 24 – 20 = 4 units  
Now, this remaining 4 units of work was done by B alone in 10 days.  
=> Efficiency of B = 4/10 = 0.4  
Therefore, time required by B alone to do the work = 24/0.4 = 60 days*

1. **Two pipes A and B attached to a swimming pool can fill the pool in 20 minutes and 30 minutes respectively working alone. Both were opened together but due to malfunctioning of the motor of pipe A, it had to be shut down after two minutes but B continued to work till the swimming pool was filled completely. Find the total time taken to fill the pool.**
   1. 20
   2. 22
   3. 25
   4. 27

**Answer:**

**27**

**Explanation:**

*Let the capacity of the pool be LCM(20, 30) = 60 units.  
=> Efficiency of pipe A = 60 / 20 = 3 units / minute  
=> Efficiency of pipe B = 60 / 30 = 2 units / minute  
=> Combined efficiency of pipe A and pipe B = 5 units / minute  
Now, the pool is filled with the efficiency of 5 units / minute for two minutes.  
=> Pool filled in two minutes = 10 units  
=> Pool still empty = 60 – 10 = 50 units  
This 50 units is filled by B alone.  
=> Time required to fill these 50 units = 50 / 2 = 25 minutes  
   
Therefore, total time required to fill the pool = 2 + 25 = 27 minutes*

1. **Samuel covers the distance from his home to his office at a speed of 25 km/hr and comes back at a speed of 4 km/hr. He completes the whole journey within 5 hours 48 minutes. Find out the distance from his home to office:**
   1. 20 km
   2. 18 km
   3. 15 km
   4. 25 km

**Answer:**

**20 km**

**Explanation:**

*Let the speed of travelling to office and back to home be x and y respectively.  
So, his average speed is = 2xy / (x+y) = (2 × 25 × 4) / (25 + 4) = 200/29 km/hr  
He covers the whole journey in 5 hours 48 minutes = 5=> = 29/5 hrs  
Therefore, total distance covered = (200/29 × 29/5) = 40 km  
So, the distance from his home to office = 40/2 = 20 km*

1. **A boatman takes 3 hours 45 minutes to travel 15 km downstream and takes 2 hours 30 minutes to travel 5 km upstream of a river. What is the speed of the stream of the river in km/h?**
   1. 2 km/h
   2. 1 km/h
   3. 6 km/h
   4. 4 km/h

**Answer:**

**1 km/h**

**Explanation:**

*Downstream:  
Time taken = 3 + 45/60 = 3 + 3/4 = 15/4 h.  
Distance covered = 15 km.  
Downstream Speed = 15 / (15/4) = 4 km/h.  
Upstream:  
Time taken = 2 + 30/60 = 2 + 1/2 = 5/2 h.  
Distance covered = 5 km.  
Upstream Speed = 5 / (5/2) = 2 km/h.  
We know, speed of stream  
= 1/2 (Downstream Speed – Upstream Speed)  
= 1/2 (4-2) = 1 km/h.*

1. **John earns 33.33% more than Peter. By what percentage is Peter’s earning less than that of John’s?**
   1. 22 %
   2. 25 %
   3. 26 %
   4. 23 %

**Answer:**

**25 %**

**Explanation:**

*Let John’s income be j and Peter’s income be p. Then,  
j = p + p × 33.33% = p + p × 100?3 % = p + p × 1/3 = 4p/3  
=> p = 3j/4 = (4 – 1)j/4 = j – j/4 = j – j × 1/4 = j – j × 100?4 % = j – j × 25%.  
Therefore, Peter’s earning is less than John’s earning by 25%.*

1. **Present age of Vinod and Ashok are in ratio of 3:4 respectively. After 5 years, the ratio of their ages becomes 7:9 respectively. What is Ashok’s present age is ?**
   1. 40 years
   2. 28 years
   3. 32 years
   4. 36 years

**Answer:**

**40 years**

**Explanation:**

*Let the present age of Vinod and Ashok be 3x years and 4x years respectively.  
Then (3x+5) / (4x+5) = 7 / 9*

*=> 9(3x + 5) = 7(4x + 5)  
=> 27x + 45 = 28x + 35  
=> x = 10  
=> Ashok’s present age = 4x = 40 years*

1. **Sum of 4 childeren born at interval of 4 years is 36. What is the age of youngest child?**
   1. 2 years
   2. 3 years
   3. 4 years
   4. 5 years

**Answer:**

**3 years**

**Explanation:**

*Let the ages of children be x, (x+4),  
(x+8) and (x+12) years.*

*Then x + x + 4 + x + 8 + x +12 = 36  
4x + 24 = 36  
4x = 12  
x = 3  
Age of the youngest child = x = 3 years*

**Verbal Reasoning**

1. **Which one of the following options is the closest in meaning to the word given below=> Nadir**
   1. Highest
   2. Lowest
   3. Medium
   4. Integration

**Answer:**

**Lowest**

**Explanation:**

*Nadir means below  
1. Astronomy A point on the celestial sphere directly below the observer, diametrically opposite the zenith.  
2. The lowest point: the nadir of their fortunes.*

1. **Complete the sentence: Universalism is to particularism as diffuseness is to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   1. specificity
   2. neutrality
   3. generality
   4. adaptation

**Answer:**

**specificity**

**Explanation:**

*Diffuseness means to spreading widely.*

1. **Were you a bird, you \_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the sky.**
   1. would fly
   2. shall fly
   3. should fly
   4. shall have flown

**Answer:**

**would fly**

**Explanation:**

*Were you a bird, you would fly in the sky.*

1. **Choose the grammatically INCORRECT sentence:**
   1. He is of Asian origin.
   2. They belonged to Africa.
   3. She is an European.
   4. They migrated from India to Australia.

**Answer:**

**She is an European.**

**Explanation:**

*The correct sentence is “She is a European.” ‘an’ applies to those words which get pronounced with a, e, i, o, u. Here pronunciation is “Yuropean” ( E-silent; has a “Y” sound), similar to ‘ a University’. Hence a European.*

1. **After several defeats in wars, Robert Bruce went in exile and wanted to commit suicide. Just before committing suicide, he came across a spider attempting tirelessly to have its net. Time and again, the spider failed but that did not deter it to refrain from making attempts. Such attempts by the spider made Bruce curious. Thus, Bruce started observing the near-impossible goal of the spider to have the net. Ultimately, the spider succeeded in having its net despite several failures. Such act of the spider encouraged Bruce not to commit suicide. And then, Bruce went back again and won many a battle, and the rest is history. Which one of the following assertions is best supported by the above information?**
   1. Failure is the pillar of success.
   2. Honesty is the best policy.
   3. Life begins and ends with adventures.
   4. No adversity justifies giving up hope.

**Answer:**

**No adversity justifies giving up hope.**

**Explanation:**

*None of A, B and C make sense. Only option D “No adversity justifies giving up hope” is related to the given information.*

1. **Choose the most appropriate alternative from the options given below to complete the following sentence: Despite several ––––––––– the mission succeeded in its attempt to resolve the conflict.**
   1. attempts
   2. setbacks
   3. meetings
   4. delegations

**Answer:**

**setbacks**

**Explanation:**

*despite means  
1. in spite of;  
2. undeterred by*

1. **Which one of the following options is the closest in meaning to the word given below=> Mitigate**
   1. Diminish
   2. Divulge
   3. Dedicate
   4. Denote

**Answer:**

**Diminish**

**Explanation:**

*Mitigate means  
1. make (something bad) less severe, serious, or painful  
2. lessen the gravity of (an offence or mistake).*

1. **Select the correct SYNONYM for:  
   Rhubarb**
   1. Common
   2. Obstinate
   3. Quarrel
   4. Join

**Answer:**

**C**

1. **Select the correct SYNONYM for:  
   Plant**
   1. Law
   2. Near
   3. Put
   4. Limit

**Answer:**

**C**

1. **Select the correct ANTONYM for:  
   Limit**
   1. Bar
   2. Freedom
   3. Occur
   4. Emerge

**Answer:**

**B**

**Logical Reasoning**

1. **What will be the next number=> 3, 5, 7, 11, 13, 17…….**
   1. 21
   2. 19
   3. 25
   4. 20

**Answer:**

**20**

**Explanation:**

*This is a sequence of prime numbers*

1. Find wrong number in series:  
   12, 25, 49, 99, 187, 395, 789
   1. 789
   2. 187
   3. 99
   4. 49

**Answer:**

**187**

**Explanation:**

*12\*2+1 = 25  
25\*2-1 = 49  
49\*2+1 = 99  
395\*2-1 = 789*

**Directions to solve Question 3 and 4: Each of the questions given below consists of a statement and/or a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statement(s) is/are sufficient to answer the given question.  
Read both the statements and Give answer  
(a) if the data in Statement I alone is sufficient to answer the question, while the data in Statement II alone is not sufficient to answer the question.  
(b) if the data in Statement II alone is sufficient to answer the question, while the data in Statement I alone is not sufficient to answer the question.  
(c) if the data in each Statement I and Statement II alone is sufficient to answer the question.  
(d) if the data even in both Statements I and II together are not sufficient to answer the question.  
(e) if the data in both Statements I and II together are necessary to answer the question.**

1. **If x, y are integers, then (x2 + y2)1/2 is an integer?  
   I) x2 + y2 is an integer  
   II) x2 – 3y2 = 0**
   1. (a)
   2. (b)
   3. (c)
   4. (d)
   5. (e)

**Answer:**

**(e) if the data in both Statements I and II together are necessary to answer the question.**

1. **Who is the tallest among the brothers A, B, C, D?  
   I: C is shorter than only B  
   II: D is taller than only A**
   1. (a)
   2. (b)
   3. (c)
   4. (d)
   5. (e)

**Answer:**

**(a) if the data in Statement I alone is sufficient to answer the question, while the data in Statement II alone is not sufficient to answer the question.**

1. Consider the following phrase:  
   **Statements:**  
   All mangoes are bananas.  
   Some bananas are globe.  
     
   All globe are square.  
     
   **Conclusions:**  
   I. Some mangoes are square.  
   II. No mango is square.  
   **Choose the correct option given below:**
   1. only conclusion I is true.
   2. only conclusion II is true.
   3. either conclusion I or conclusion II is true
   4. neither conclusion I nor conclusion II is true
   5. both conclusions I and II are true.

**Answer:**

**(c)**

1. Consider the following phrase:  
   **Statement:** A line from Ram’s appointment letter is “you are hereby appointed as a systems engineer with a probation period of two years and your performance will be reviewed at the end of the period for confirmation.”

**Assumptions:**  
I. At the time of appointment, the performance of one generally is not well known.  
II. In the probation period, one tries to prove his worth generally.

Choose the correct option given below.

* 1. If only assumption I is implicit
  2. If only assumption II is implicit.
  3. If either I or II is implicit.
  4. If neither I nor II is implicit.
  5. If both I and II are implicit.

**Answer:**

**(e)**

1. Consider the following phrase:  
   **Statement:** In a IPL match. RR made 100 runs in total. Out of these 65 were made by bowlers  
   **Assumptions:**  
   **I.** 65% of the team consist of bowlers  
   **II.** The opening batsman were bowlers  
   Choose the correct option given below.
   1. If only assumption I is implicit
   2. If only assumption II is implicit.
   3. If either I or II is implicit.
   4. If neither I nor II is implicit.
   5. If both I and II are implicit.

**Answer:**

**(d)**

1. **Statements:**  
   I – Some S are L  
   II – Some C are P  
   III – All P is R  
   **Conclusions:**  
   I. Some P are L  
   II. Some C are R  
   **Choose the correct option given below:**
   1. only conclusion I is true.
   2. only conclusion II is true.
   3. either conclusion I or conclusion II is true
   4. neither conclusion I nor conclusion II is true
   5. both conclusions I and II are true.

**Answer:**

**(d) neither conclusion I nor conclusion II is true**

1. Find wrong number in series: 2, 6, 12, 20, 30, 40, 56
   1. 12
   2. 20
   3. 40
   4. 56

**Answer:**

**40**

**Explanation:**

*series (1\*2) + (2\*3) + (3\*4) + ……+ (n\*(n+1))*

1. Find wrong number in series: -2, 4, 6, 8, -10
   1. -2
   2. 4
   3. 6
   4. 8

**Answer:**

**6**

**Explanation:**

***Tn****= (-1)n2n*

1. **If the sum of two numbers is 13 and the sum of their square is 85. Find the numbers?**.
   1. 6, 7
   2. 5, 8
   3. 4, 9
   4. 3, 10

**Answer:**

**6, 7**

**Explanation:**

*Let the numbers be x and 13-x  
Then x2 + (13 – x)2 = 85  
=> x2 + 169 + x2 – 26x = 85  
=> 2 x2 – 26x + 84 = 0  
=> x2 – 13x + 42 = 0  
=> (x-6)(x-7)=0*

*Hence numbers are 6 & 7*

1. **HCF of two numbers is 11 and their LCM is 385. If the numbers do not differ by more than 50, what is the sum of the two numbers ?**
   1. 132
   2. 35
   3. 12
   4. 36

**Answer:**

**132**

**Explanation:**

*Product of numbers = LCM x HCF = 11 x 385 = 4235  
Let the numbers be of the form 11m and 11n, such that ‘m’ and ‘n’ are co-primes.  
=> 11m x 11n = 4235  
=> m x n = 35  
=> (m, n) can be either of (1, 35), (35, 1), (5, 7), (7, 5).  
=> The numbers can be (11, 385), (385, 11), (55, 77), (77, 55).  
But it is given that the numbers cannot differ by more than 50.  
Hence, the numbers are 55 and 77.  
Therefore, sum of the two numbers = 55 + 77 = 132*

1. **The LCM of two co-prime numbers is 117. What is the sum of squares of the numbers ?**
   1. 220
   2. 1530
   3. 250
   4. 22

**Answer:**

**250**

**Explanation:**

*117 = 3 x 3 x 13  
As the numbers are co-prime, HCF = 1.  
So, the numbers have to be 9 and 13.  
92 = 81  
132 = 169  
Therefore, required answer = 250*

1. **A and B took a job to be completed in 20 days. They started working together and after 12 days, C joined them and the whole job finished in 15 days. How much time would C require to complete the job if only C was hired?**
   1. 15
   2. 12
   3. 10
   4. 8

**Answer:**

**12**

**Explanation:**

*Let the total job be 20 units. It is given that A and B took the job to be completed in 20 days.  
=> Combined efficiency of A and B = 20/20 = 1 unit / day  
Now, job done in 12 days = 12 units  
=> Job Left = 8 units  
Now, this remaining 8 units of job have been done by all A, B and C together.  
Let the efficiency of C be ‘x’.  
=> Combined efficiency of A, B and C = 1+x units/ day  
Now, with this efficiency, the job got completed in 3 more days.  
=> Job done in 3 days = 3 x (1+x) = 8 units  
=> x = 5/3  
Therefore, efficiency of C = x = 5/3 units / day  
Hence, time required by C alone to do the job = 20/(5/3) = 12 days*

1. **Three pipes A, B and C were opened to fill a cistern. Working alone, A, B and C require 12, 15 and 20 minutes respectively. After 4 minutes of working together, A got blocked and after another 1 minute, B also got blocked. C continued to work till the end and the cistern got completely filled. What is the total time taken to fill the cistern ?**
   1. 6 minutes
   2. 6 minutes 15 seconds
   3. 6 minutes 40 seconds
   4. 6 minutes 50 seconds

**Answer:**

**6 minutes 40 seconds**

**Explanation:**

*Let the capacity of the cistern be LCM(12, 15, 20) = 60 units.  
=> Efficiency of pipe A = 60 / 12 = 5 units / minute  
=> Efficiency of pipe B = 60 / 15 = 4 units / minute  
=> Efficiency of pipe C = 60 / 20 = 3 units / minute  
=> Combined efficiency of pipe A, pipe B and pipe C = 12 units / minute  
Now, the cistern is filled with the efficiency of 12 units / minute for 4 minutes.  
=> Pool filled in 4 minutes = 48 units  
=> Pool still empty = 60 – 48 = 12 units  
Now, A stops working.  
=> Combined efficiency of pipe B and pipe C = 7 units / minute  
Now, the cistern is filled with the efficiency of 7 units / minute for 1 minute.  
=> Pool filled in 1 minute = 7 units  
=> Pool still empty = 12 – 7 = 5 units  
Now, B also stops working.  
These remaining 5 units are filled by C alone.  
=> Time required to fill these 5 units = 5 / 3 = 1 minute 40 seconds  
   
Therefore, total time required to fill the pool = 4 minutes + 1 minutes + 1 minute 40 seconds = 6 minutes 40 seconds*

1. **If John walks at the speed of 5 km/h, he reaches his office 7 minutes late. However, if he walks at a speed of 6 km/h, he reaches his office 5 minutes early. How far is his office from his home?**
   1. 9
   2. 8
   3. 10
   4. 6

**Answer:**

**6**

**Explanation:**

*Let the distance of John’s office from his home be x.  
The time difference when covering the distance x at the two different speeds = 5 – (-7) = 12 min = 1/5 hr  
=> x/5 – x/6 = 1/5  
=> (6x – 5x)/30 = 1/5  
=> x = 6.  
So, his office is 6 km far from his home.*

1. **A speedboat runs 6 km upstream in a river and comes back to the starting point in 33 minutes. The stream of the river is running at 2 km/hr. What is the speed of speedboat in still water?**
   1. 25 km/h
   2. 21 km/h
   3. 26 km/h
   4. 22 km/h

**Answer:**

**22 km/h**

**Explanation:**

*Let the speed of speedboat in still water be x km/h.  
Then, speed downstream = (x + 2) km/h, speed upstream = (x – 2) km/h.  
Since it goes 6 km upstream and comes back in 33 minutes, we have  
6/(x+2) + 6/(x-2) = 33/60  
=> 11x² – 240x – 44 = 0  
=> 11x² – 242x + 2x – 44 = 0  
=> (x – 22)(11x + 2) = 0  
=> x = 22.  
Therefore, the required speed = 22 km/h.*

1. **Mary’s salary is reduced by 10%. By what percentage must her new salary be increased in order to gain her old salary?**
   1. 137/9 %
   2. 194/9 %
   3. 100/9 %
   4. 110/9 %

**Answer:**

**100/9 %**

**Explanation:**

*Let her old salary be Rs 100. Then, her new salary = 100 – 10 = Rs 90.  
So, to gain her old salary, her new salary must be increased by Rs 10.  
Therefore, the required percentage = (10?90) × 100% = 100/9 %.*

1. **At present, the ratio between the ages of Ram and Shyam is 6:5 respectively. After 7 years, Shyam’s age will be 32 years. What is the present age of Ram?**
   1. 32
   2. 40
   3. 30
   4. 36

**Answer:**

**30**

**Explanation:**

*Let the present age of Ram and Shyam be 6x years and 5x years respectively.*

*Then 5x + 7 = 32  
=> 5x = 25  
=> x = 5  
=> Present age of Ram = 6x = 30 years*

1. **A is 5 years older than B who is thrice as old as C. If the total of ages of A, B and C is 40, then how old is C ?**
   1. 6
   2. 7
   3. 5
   4. 8

**Answer:**

**5**

**Explanation:**

*Let C’s age be x years then B’s age be 3x  
years and A’s age be (3x+5) years*

*Therefore x + 3x + (3x + 5) = 40  
7x + 5 = 40  
7x = 35  
x = 5*

**Verbal Reasoning**

1. **Choose the grammatically INCORRECT sentence:**
   1. They gave us the money back less the service charges of Three Hundred rupees.
   2. This country’s expenditure is not less than that of Bangladesh.
   3. The committee initially asked for funding of Fifty Lakh rupees, but later settled for a lesser sum.
   4. This country’s expenditure on educational reforms is very less.

**Answer:**

**This country’s expenditure on educational reforms is very less.**

**Explanation:**

*The prime minister has arrived along with the guards*

1. **Choose the most appropriate alternative from the options given below to complete the following sentence: Suresh’s dog is the one ––––––––– was hurt in the stampede.**
   1. that
   2. which
   3. who
   4. whom

**Answer:**

**that**

1. **Wanted Temporary, Part-time persons for the post of Field Interviewer to conduct personal interviews to collect and collate economic data. Requirements: High School-pass, must be available for Day, Evening and Saturday work. Transportation paid, expenses reimbursed. Which one of the following is the best inference from the above advertisement?**
   1. Gender-discriminatory
   2. Xenophobic
   3. Not designed to make the post attractive
   4. Not gender-discriminatory

**Answer:**

**Not designed to make the post attractive**

1. **Which of the following options is the closest in the meaning to the word below: Inexplicable**
   1. incomprehensible
   2. indelible
   3. inextricable
   4. infallible

**Answer:**

**incomprehensible**

1. **Choose the most appropriate word (s) from the options given below to complete the following sentence. I Contemplated \_\_\_\_\_\_\_\_\_\_\_\_ Singapore for my vacation but decided against it.**
   1. to visit
   2. having to visit
   3. visiting
   4. for a visit

**Answer:**

**visiting**

**Explanation:**

*Contemplate is a transitive verb. So it should be followed by a gerund . Hence the correct usage of contemplate is verb+ ing form.*

1. **Choose the most appropriate word from the options given below to complete the following sentence.  
   “If you are trying to make a strong impression on your audience, you cannot do so by being understated, tentative or\_\_\_\_\_\_\_\_\_\_\_\_\_.”**
   1. Hyperbolic
   2. Restrained
   3. Argumentative
   4. Indifferent

**Answer:**

**Restrained**

1. **Few school curricula include a unit on how to deal with bereavement and grief, and yet all students at some point in their lives suffer from losses through death and parting. Based on the above passage which topic would not be included in a unit on bereavement?**
   1. how to write a letter of condolence
   2. what emotional stages are passed through in the healing process
   3. what the leading causes of death are
   4. Show to give support to a grieving friend

**Answer:**

**what the leading causes of death are**

**Explanation:**

*As per the given passage, the unit on bereavement is about how to deal with bereavement and grief, not about the causes of death. All other options make sense.*

1. **Select the correct SYNONYM for:  
   Begin**
   1. Cease
   2. Obstinate
   3. Commence
   4. Repress

**Answer:**

**A**

1. **Select the correct SYNONYM for:  
   Check**
   1. Aid
   2. Help
   3. Permission
   4. Control

**Answer:**

**D**

1. **Select the correct ANTONYM for:  
   Help**
   1. Advice
   2. Use
   3. Harm
   4. Succor

**Answer:**

**C**

**Logical Reasoning**

1. **Find wrong number in series:  
   34, 7, 37, 14, 36, 28, 43, 56**
   1. 14
   2. 36
   3. 28
   4. 56

**Answer:**

**36**

**Explanation:**

*Mixture of series (alternate numbers)  
34+3=37,  
37+3 =40…  
7\*2= 14  
14\*2= 28  
28\*2 =56*

1. **Find wrong number in series:  
   1, 4, 9, 16, 25, 32, 49, 64**
   1. 9
   2. 25
   3. 32
   4. 64

**Answer:**

**32**

**Explanation:**

*Square of natural numbers:*

*12=1, 22 =4, 32=9…………..82=64*

**Directions to solve Question 3 and 4: Each of the questions given below consists of a statement and/or a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statement(s) is/are sufficient to answer the given question.  
Read both the statements and Give answer  
(a) if the data in Statement I alone is sufficient to answer the question, while the data in Statement II alone is not sufficient to answer the question.  
(b) if the data in Statement II alone is sufficient to answer the question, while the data in Statement I alone is not sufficient to answer the question.  
(c) if the data in each Statement I and Statement II alone is sufficient to answer the question.  
(d) if the data even in both Statements I and II together are not sufficient to answer the question.  
(e) if the data in both Statements I and II together are necessary to answer the question.**

1. **Is x + y = 0?  
   Statement I – x.y < 0  
   Statement II – x2 = y2**
   1. (a)
   2. (b)
   3. (c)
   4. (d)
   5. (e)

**Answer:**

**(e) if the data in both Statements I and II together are necessary to answer the question.**

**Explanation:**

*For x + y = 0, there are 2 cases:*

*Case 1:  
x and y are of opposite sign.  
This can be inferred from x.y < 0 Case 2: x = y = 0 This can be inferred from x2 = y2*

*Hence the data in both Statements I and II together  
are necessary to answer the question.*

1. **What is the value of ‘x’  
   I: x2 + x – 6 = 0  
   II: x => 0**
   1. (a)
   2. (b)
   3. (c)
   4. (d)
   5. (e)

**Answer:**

**(e) if the data in both Statements I and II together are necessary to answer the question.**

1. Consider the following phrase:  
   **Statement:** All C are J.  
   All J are B.  
   No B is R.  
   **Conclusions:**  
   **I.** All B are C.  
   **II.** Some J are C  
   **Choose the correct option given below:**
   1. only conclusion I is true.
   2. only conclusion II is true.
   3. either conclusion I or conclusion II is true
   4. neither conclusion I nor conclusion II is true
   5. both conclusions I and II are true.

**Answer:**

**(b) only conclusion II is true.**

**Explanation:**

*All B are not C*

1. Consider the following phrase:  
   **Statement:**Tag line of an advt: “Just step in! We are concerned about all your needs with wide range of articles”.  
   **Assumptions:**  
   I. People do not give much attention to such advertisements.  
   II. Selective marketing is popular among people.

Choose the correct option given below.

* 1. If only assumption I is implicit
  2. If only assumption II is implicit.
  3. If either I or II is implicit.
  4. If neither I nor II is implicit.
  5. If both I and II are implicit.

**Answer:**

**(e)**

1. Consider the following phrase:  
   **Statement:** The Sun of Britain never sets.  
   **Assumptions:**  
   **I.** Britain’s has 24 hour sunlight  
   **II.** Some part of the Britain always has sunlight  
   Choose the correct option given below.
   1. If only assumption I is implicit
   2. If only assumption II is implicit.
   3. If either I or II is implicit.
   4. If neither I nor II is implicit.
   5. If both I and II are implicit.

**Answer:**

**(b)**

1. **Statements:**  
   I – Some S are L  
   II – Some C are P  
   III – All P is R  
   **Conclusions:**  
   I. Some P are L  
   II. Some C are R  
   **Choose the correct option given below:**
   1. only conclusion I is true.
   2. only conclusion II is true.
   3. either conclusion I or conclusion II is true
   4. neither conclusion I nor conclusion II is true
   5. both conclusions I and II are true.

**Answer:**

**(d) neither conclusion I nor conclusion II is true**

1. Find wrong number in series: 2, -4, 6, 8, 10, -12
   1. 2
   2. -4
   3. 6
   4. 8

**Answer:**

**8**

**Explanation:**

*series (1\*2) – (2\*3) + (3\*4) – ……+ (-1n-1)(n\*(n+1))*

1. Find wrong number in series: 1, 4, 9, 16, 36
   1. 4
   2. 9
   3. 16
   4. 36

**Answer:**

**36**

**Explanation:**

*Tn = 12 + 22 + 32 + 42 + …..*

1. **The difference between a two-digit number and the number obtained by interchanging the positions of its digits is 45. What is the difference between the two digits of that number?**.
   1. 5
   2. 7
   3. 6
   4. None of these

**Answer:**

**5**

**Explanation:**

*Let the ten’s digit be x and unit’s digit be y  
Then (10x + y) – (10y + x) = 45  
9(x – y) = 45  
x – y = 5*

1. **Two numbers are in the ratio of 5:7. If their LCM is 105, what is the difference between their squares ?**
   1. 216
   2. 210
   3. 72
   4. 840

**Answer:**

**216**

**Explanation:**

*Let ‘h’ be the HCF of the two numbers.  
=> The numbers are 5h and 7h.  
We know that Product of Numbers = LCM x HCF  
=> 5h x 7h = 105 x h  
=> h = 3  
So, the numbers are 15 and 21.  
Therefore, difference of their squares = 212 – 152 = 441 – 225 = 216*

1. **Three people A, B and C working individually can finish a job in 10, 12 and 20 days respectively. They decided to work together but after 2 days, A left the work and after another one day, B also left work. If they got two lacs collectively for the entire work, find the difference of the highest and lowest share.**
   1. 70000
   2. 60000
   3. 10000
   4. 20000

**Answer:**

**70000**

**Explanation:**

*Let the total work be LCM(10, 12, 20) = 60 units  
=> Efficiency of A = 60/10 = 6 units / day  
=> Efficiency of B = 60/12 = 5 units / day  
=> Efficiency of C = 60/20 = 3 units / day  
Since the number of working days are different for each person, the share of each will be calculated in the ratio of the units of work done.  
Now, A works for 2 days and B works for 3 days.  
=> Work done by A = 2 x 6 = 12 units  
=> Work done by B = 3 x 5 = 15 units  
=> Work done by C = 60 – 12 – 15 = 33 units  
Therefore, ratio of work done = 12:15:33 = 4:5:11  
So, A’s share = (4/20) x 2, 00, 000 = Rs 40, 000  
B’s share = (5/20) x 2, 00, 000 = Rs 50, 000  
C’s share = (11/20) x 2, 00, 000 = Rs 1, 10, 000  
Therefore, difference of the highest and lowest share = Rs 1, 10, 000 – 40, 000 = Rs 70, 000*

1. **HCF of two numbers is 11 and their LCM is 385. If the numbers do not differ by more than 50, what is the sum of the two numbers ?**
   1. 132
   2. 35
   3. 12
   4. 36

**Answer:**

**132**

**Explanation:**

*Product of numbers = LCM x HCF  
=> 4235 = 11 x 385*

*Let the numbers be of the form 11m and 11n,  
such that ‘m’ and ‘n’ are co-primes.  
=> 11m x 11n = 4235  
=> m x n = 35  
=> (m, n) can be either of (1, 35), (35, 1), (5, 7), (7, 5).  
=> The numbers can be (11, 385), (385, 11), (55, 77), (77, 55).*

*But it is given that the numbers cannot differ by more than 50.  
Hence, the numbers are 55 and 77.  
Therefore, sum of the two numbers = 55 + 77 = 132*

1. **Three pipes A, B and C are connected to a tank. Working alone, they require 10 hours, 20 hours and 30 hours respectively. After some time, A is closed and after another 2 hours, B is also closed. C works for another 14 hours so that the tank gets filled completely. Find the time (in hours) after which pipe A was closed.**
   1. 1
   2. 1.5
   3. 2
   4. 3

**Answer:**

**2**

**Explanation:**

*Let the capacity of the tank be LCM (10, 20, 30) = 60  
=> Efficiency of pipe A = 60 / 10 = 6 units / hour  
=> Efficiency of pipe B = 60 / 20 = 3 units / hour  
=> Efficiency of pipe C = 60 / 30 = 2 units / hour  
Now, all three work for some time, say ‘t’ hours.  
So, B and C work for 2 more hours after ‘t’ hours and then, C works for another 14 hours.  
=> Combined efficiency of pipe A, pipe B and pipe C = 11 units/hour  
=> Combined efficiency of pipe B and pipe C = 5 units/hour  
   
So, we have 11 x t + 5 x 2 + 14 x 2 = 60  
=> 11 t + 10 + 28 = 60  
=> 11 t = 60 – 38  
=> 11 t = 22  
=> t = 2  
   
Therefore, A was closed after 2 hours.*

1. **A policeman sees a thief at a distance of 100 meters and starts to chase him. The thief sees him and starts to run too. If the thief is running at the speed of 8 km/hr and the policeman is running at the speed of 10 km/hr, find out the distance covered by the thief before the policeman catches him.**
   1. 250 meters
   2. 400 meters
   3. 450 meters
   4. 350 meters

**Answer:**

**400 meters**

**Explanation:**

*We can safely assume that the policeman is running in the same direction as the thief.  
Speed of policeman w.r.t thief = (10 – 8) = 2 km/hr.  
Time taken by policeman to cover the 100m distance between him and the thief = (100/1000) / 2 = 1/20 hr.  
Therefore, the distance covered by thief in 1/20 hrs = 8 × 1/20 = 2/5 km = 400 meters.*

1. **A boat runs at the speed of 13 km/h in still water. If the speed of the stream is 4 km/h, how much time will it take to go 68 km downstream?**
   1. 5 h
   2. 4 h
   3. 6 h
   4. 3 h

**Answer:**

**4 h**

**Explanation:**

*Speed of the boat downstream = 13 + 4 = 17 km/h.  
Therefore, time taken to go 68 km downstream = (68/17) = 4 h.*

1. **The price of sugar is decreased by 10%. As a consequence, monthly sales is increased by 30%. Find out the percentage increase in monthly revenue.**
   1. 17 %
   2. 19 %
   3. 18 %
   4. None of these

**Answer:**

**17 %**

**Explanation:**

*Let the price of sugar be Rs 100 and monthly sales be 100 units. Then,  
total revenue = 100 × 100 = Rs 10000.  
And, new revenue = 90 × 130 = Rs 11700.  
Increase in revenue = 11700 – 10000 = Rs 1700.  
Hence, percentage increase in revenue = (1700/10000) × 100% = 17%.*

1. **The present ages of A, B and C are in proportions 4:5:9. Nine years ago, sum of their ages was 45 years. Find their present ages in years**
   1. 15, 20, 35
   2. 20, 24, 36
   3. 20, 25, 45
   4. 16, 20, 36

**Answer:**

**16, 20, 36**

**Explanation:**

*Let the current ages of A, B and C be ax years, 5x years and 9x respectively.  
Then (4x-9) + (5x-9) + (9x-9) =45  
=> 18x – 27 = 45  
=> 18x = 72  
=> x = 4  
Present ages of A, B and C are 4x = 16, 5x = 20, 9x = 36 respectively.*

1. **Present age of Vinod and Ashok are in ratio of 3:4 respectively. After 5 years, the ratio of their ages becomes 7:9 respectively. What is Ashok’s present age is ?**
   1. 40 years
   2. 28 years
   3. 32 years
   4. 36 years

**Answer:**

**40 years**

**Explanation:**

*Let the present age of Vinod and Ashok be 3x years and 4x years respectively.  
Then (3x+5) / (4x+5) = 7 / 9*

*=> 9(3x + 5) = 7(4x + 5)  
=> 27x + 45 = 28x + 35  
=> x = 10  
=> Ashok’s present age = 4x = 40 years*

**Verbal Reasoning**

1. **Choose the most appropriate word from the options given below to the complete the following sentence: His rather casual remarks on politics \_\_\_\_\_\_\_\_\_\_\_ his lack of seriousness about the subject.**
   1. masked
   2. belied
   3. betrayed
   4. suppressed

**Answer:**

**betrayed**

**Explanation:**

*There should be word like showed or revealed or betrayed.*

1. **Which of the following options is closest in meaning to the word Circuitous.**
   1. cyclic
   2. indirect
   3. confusing
   4. crooked

**Answer:**

**indirect**

1. **Choose the most appropriate word from the options given below to complete the following sentence: If we manage to \_\_\_\_\_\_\_\_\_\_\_\_ our natural resources, we would leave a better planet for our children.**
   1. uphold
   2. restrain
   3. cherish
   4. conserve

**Answer:**

**conserve**

1. **The question below consists of a pair of related words followed by four pairs of words. Select the pair that best expresses the relation in the original pair. Unemployed: Worker**
   1. fallow: land
   2. unaware: sleeper
   3. wit: jester
   4. renovated: house

**Answer:**

**fallow: land**

1. **Modern warfare has changed from large scale clashes of armies to suppression of civilian populations. Chemical agents that do their work silently appear to be suited to such warfare; and regretfully, there exist people in military establishments who think that chemical agents are useful tools for their cause. Which of the following statements best sums up the meaning of the above passage:**
   1. Modern warfare has resulted in civil strife.
   2. Chemical agents are useful in modern warfare.
   3. Use of chemical agents in warfare would be undesirable
   4. Use of chemical agents in warfare would be undesirable

**Answer:**

**People in military establishments like to use chemical agents in war.**

**Explanation:**

*Civil Strife means civil disorder, a term used to describe unrest caused by a group of people, which is not true in the light of the given passage. So, A is not the correct option. B is incorrect because there is no fact in the data justifying the use of chemical agents for warfare. C is also incorrect because it is mentioned in the second line that chemical agents appear to be suited for such warfare, which implies that they are desirable. It is mentioned in the last line that there exist people in military establishments who think that chemical agents are useful for warfare, which makes D correct.*

1. **Which of the following options is the closest in meaning to the phrase underlined in the sentence below=> It is fascinating to see life forms cope with varied environmental conditions.**
   1. adopt to
   2. adapt to
   3. adept in
   4. accept with

**Answer:**

**adapt to**

**Explanation:**

*In the above phrase, the underlined part is \*cope with\*. “Cope” – It’s a verb. Meaning – deal effectively with some difficulty. Example Sentence – “his ability to cope with stress” “adopt” – verb. Meaning – choose to take up or follow (an idea, method, or course of action). Sentence – “this approach has been adopted by many big banks” “adapt” – verb. Meaning – become adjusted to new conditions. sentence -“a large organization can be slow to adapt to change” “adept” – adjective Meaning – very skilled or proficient at something. Sentence – “she is adept at cutting through red tape” “accept” – verb Meaning – consent to receive or undertake (something offered). Sentence – “he accepted a pen as a present” Hence, only “adapt” goes right with the phrase described in the question.*

1. **Choose the most appropriate word from the options given below to complete the following sentence. He could not understand the judges awarding her the first prize, because he thought that her performance was quite \_\_\_\_\_\_\_\_\_\_.**
   1. superb
   2. medium
   3. mediocre
   4. exhilarating

**Answer:**

**mediocre**

**Explanation:**

*Here, superb and exhilarating would imply that the performance was brilliant. But, the fact that he could not understand why she got awarded the first prize indicates that her performance was not that amazing in his opinion. So, A and D are incorrect. Medium is more used as a noun, and denoted intermediate in quality, value, etc. So, B is incorrect Mediocre is used as an adjective (to represent quality) and means low in performance, i.e., normal and not extraordinary and C is the correct choice.*

1. **Select the correct SYNONYM for:  
   Calm**
   1. Common
   2. Still
   3. Nervous
   4. Angry

**Answer:**

**B**

1. **Select the correct SYNONYM for:  
   Furious**
   1. Calm
   2. Happy
   3. Mild
   4. Fierce

**Answer:**

**D**

1. **Select the correct ANTONYM for:  
   Intense**
   1. Acute
   2. Eager
   3. Hard
   4. Gentle

**Answer:**

**D**

**Logical Reasoning**

1. **Find wrong number in series:  
   2, 7, 10, 22, 18, 37, 26, 46**
   1. 10
   2. 18
   3. 26
   4. 46

**Answer:**

**46**

**Explanation:**

*Two alternate series:  
2+8 =10  
7+15=22  
10+8 =18  
22+15=37  
37+15 = 52  
so, +8, +15, +8, +15, ……*

1. **Find wrong number in series:  
   4, 12, 48, 240, 1240, 10080**
   1. 12
   2. 240
   3. 1240
   4. 10080

**Answer:**

**1240**

**Explanation:**

*4 \* 3 = 12  
12 \* 4 = 48  
48 \* 5 = 240  
240 \* 6 = 1440*

**Directions to solve Question 3 and 4: Each of the questions given below consists of a statement and/or a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statement(s) is/are sufficient to answer the given question.  
Read both the statements and Give answer  
(a) if the data in Statement I alone is sufficient to answer the question, while the data in Statement II alone is not sufficient to answer the question.  
(b) if the data in Statement II alone is sufficient to answer the question, while the data in Statement I alone is not sufficient to answer the question.  
(c) if the data in each Statement I and Statement II alone is sufficient to answer the question.  
(d) if the data even in both Statements I and II together are not sufficient to answer the question.  
(e) if the data in both Statements I and II together are necessary to answer the question.**

1. **Is x – y is greater than u – v ?**

**I) x > u and y < v  
II) y = 8, v = 9, x = 15 and u = 13.**

* 1. (a)
  2. (b)
  3. (c)
  4. (d)
  5. (e)

**Answer:**

**(c) if the data in each Statement I and Statement II alone is sufficient to answer the question.**

1. **In which year X was born?  
   Statement I. X is 30 years younger than his mother  
   Statement II. Rahul’s 2 years elder brother was born in 1973**
   1. (a)
   2. (b)
   3. (c)
   4. (d)
   5. (e)

**Answer:**

**(e) if the data in both Statements I and II together are necessary to answer the question.**

1. Consider the following phrase:  
   **Statement:** Some C are T  
   Some T are R  
   All R are M  
   **Conclusions:**  
   **I.** Some M are T  
   **II.** Some C are M  
   **Choose the correct option given below:**
   1. only conclusion I is true.
   2. only conclusion II is true.
   3. either conclusion I or conclusion II is true
   4. neither conclusion I nor conclusion II is true
   5. both conclusions I and II are true.

**Answer:**

**(a)**

**Explanation:**

*All B are not C*

1. Consider the following phrase:  
   **Statement:** Change is the law of nature  
   **Assumptions:**  
   **I.** Everything in nature changes eventually  
   **II.** Nothing is permanent in this world  
   Choose the correct option given below.
   1. If only assumption I is implicit
   2. If only assumption II is implicit.
   3. If either I or II is implicit.
   4. If neither I nor II is implicit.
   5. If both I and II are implicit.

**Answer:**

**(e)**

1. Consider the following phrase:  
   **Statement:** The Delhi-Meerut Expressway will reduce the time of journey by hours.  
   **Assumptions:**  
   **I.** The Delhi-Meerut Expressway is a good thing for public  
   **II.** The Delhi-Meerut Expressway will save a lot of fuel and money.  
   Choose the correct option given below.
   1. If only assumption I is implicit
   2. If only assumption II is implicit.
   3. If either I or II is implicit.
   4. If neither I nor II is implicit.
   5. If both I and II are implicit.

**Answer:**

**(e)**

1. **Statements:**  
   I – Some S are L  
   II – Some C are P  
   III – All P is R  
   **Conclusions:**  
   I. Some P are L  
   II. Some C are R  
   **Choose the correct option given below:**
   1. only conclusion I is true.
   2. only conclusion II is true.
   3. either conclusion I or conclusion II is true
   4. neither conclusion I nor conclusion II is true
   5. both conclusions I and II are true.

**Answer:**

**(d) neither conclusion I nor conclusion II is true**

1. Find wrong number in series: -2, 6, 12, 20, -30, 40, -56
   1. 6
   2. 12
   3. 20
   4. -30

**Answer:**

**12**

**Explanation:**

*series -(1\*2) + (2\*3) – (3\*4) + ……+ (-1n)(n\*(n+1))*

1. Find wrong number in series: 1, -4, 9, 16, 25, -36
   1. -4
   2. 9
   3. 16
   4. 25

**Answer:**

**16**

**Explanation:**

*Tn = 12 – 22 + 32 – 42 + …..*

1. **A two-digit number is such that the product of the digits is 12. When 9 is subtracted from the number, the digits are reversed. The number is:**.
   1. 34
   2. 62
   3. 43
   4. 26

**Answer:**

**43**

**Explanation:**

*Let the ten’s and unit’s digit be x and y.*

*Then 10x + – 9 = 10 x + x*

*10×2 + 12 -9x = 120 + x2  
9×2 – 9x – 108 = 0  
x2 –x – 12 = 0  
x2 –4x + 3x – 12 = 0  
(x – 4) (x + 3) = 0  
Therefore x = 4  
Hence the required no. is 43*

1. **Which is the largest number that divides 17, 23, 35, 59 to leave the same remainder in each case ?**
   1. 2
   2. 3
   3. 6
   4. 12

**Answer:**

**6**

**Explanation:**

*Required Number = HCF (23-17, 35-23, 59-35, 59-17)  
= HCF (6, 12, 24, 42)  
= 6*

1. **Two numbers are in the ratio of 5:7. If their LCM is 105, what is the difference between their squares ?**
   1. 261
   2. 210
   3. 72
   4. 840

**Answer:**

**216**

**Explanation:**

*Let ‘h’ be the HCF of the two numbers.  
=> The numbers are 5h and 7h.  
We know that Product of Numbers = LCM x HCF  
=> 5h x 7h = 105 x h  
=> h = 3  
So, the numbers are 15 and 21.  
Therefore, difference of their squares = 212 – 152 = 441 – 225 = 216*

1. **A alone and B alone can do a work in respectively 18 and 8 days more than both working together. Find the number of days required if both work together.**
   1. 12
   2. 8
   3. 16
   4. 36

**Answer:**

**12**

**Explanation:**

*Let the time required to complete the work by A and B together = n days  
=> Time required by A alone = n + 18 days  
=> Time required by B alone = n + 8 days  
Therefore, n2 = 18 x 8 = 144  
=> n = 12  
Hence, A and B require 12 days to complete the work if they work together.*

1. **Working alone, two pipes A and B require 9 hours and 6.25 hours more respectively to fill a pool than if they were working together. Find the total time taken to fill the pool if both were working together.**
   1. 6
   2. 6.5
   3. 7
   4. 7.5

**Answer:**

**7.5**

**Explanation:**

*Let the time taken if both were working together be ‘n’ hours.  
=> Time taken by A = n + 9  
=> Time taken by B = n + 6.25  
   
In such kind of problems, we apply the formula :  
n2 = a x b, where ‘a’ and ‘b’ are the extra time taken if both work individually than if both work together.  
Therefore, n2 = 9 x 6.25  
=> n = 3 x 2.5 = 7.5  
   
Thus, working together, pipes A and B require 7.5 hours.*

1. **Paul has to travel 24 km. After walking for 1 hour 40 minutes he sees that he has covered 5/7 of the distance left to cover. Find out Paul’s speed in meters per second.**
   1. 5/3 m/s
   2. 7/5 m/s
   3. 2/3 m/s
   4. 8/5 m/s

**Answer:**

**5/3 m/s**

**Explanation:**

*Let the required speed be x km/hr.  
Distance covered by Paul in 1 hr 40 min = x × 100/60 = 5x/3 km.  
Remaining distance = (24 – 5x/3) km.  
Therefore, 5x/3 = 5/7 × (24 – 5x/3)  
=> 7/5 × 5x/3 = 24 – 5x/3  
=> 7x/3 = (72 – 5x)/3  
=> 7x = 72 – 5x  
=> 12x = 72 => x = 6.  
Paul’s speed in meters per second = 6 × 5/18 = 5/3 m/s.*

1. **Peter’s speedboat run at a speed of 9 km/h in still water. He rows to a place at a distance of 105 km and comes back to the starting point. If the speed of the stream is 1.5 km/h, find out the time taken by Peter.**
   1. 24 h
   2. 21 h
   3. 23 h
   4. 22 h

**Answer:**

**24 h**

**Explanation:**

*Upstream speed = 9 – 1.5 = 7.5 km/h.  
Downstream speed = 9 + 1.5 = 10.5 km/h.  
Therefore, time taken = 105/7.5 + 105/10.5 = 14 + 10 = 24 h.*

1. **Jack consumes 75% of his salary. Later his salary is increased by 20% and he increases his expenditures by 10%. Find the percentage increase in his savings.**
   1. 51 %
   2. 60 %
   3. 50 %
   4. 55 %

**Answer:**

**50 %**

**Explanation:**

*Let Jack’s original salary be Rs 100. Then,  
his expenditure = Rs 75,  
his savings = Rs 25.  
Now, his new salary = Rs 120. So,  
new expenditure = (110/100) × 75 = Rs 165/2,  
new savings = 120 – 165/2 = Rs 75/2.  
Increase in savings = 75/2 – 25 = Rs 25/2.  
Therefore, percentage increase in savings = (25/2)/25 × 100% = 50%.*

1. **Two numbers are in the ratio of 2:9. If their H. C. F. is 19, numbers are:**
   1. 6, 27
   2. 8, 36
   3. 38, 171
   4. 20, 90

**Answer:**

**38, 171**

**Explanation:**

*Let the numbers be 2X and 9X  
Then their H.C.F. is X, so X = 19  
=> Numbers are (2×19 and 9×19) i.e. 38 and 171*

1. **At present father’s age is thrice of son’s age. After 15 years father’s age will be double of son’s age. What is son’s present age?**
   1. 10 years
   2. 12 years
   3. 15 years
   4. 16 years

**Answer:**

**15 years**

**Explanation:**

*Let the present age of son and father be x years and 3x years respectively.*

*Then (3x + 15) = 2(x + 15)*

*=> 3x + 15 = 2x + 30  
=> x = 15  
=> Son’s present age = x = 15 years.*

**Verbal Reasoning**

1. **In a press meet on the recent scam, the minister said, “The buck stops here”. What did the minister convey by the statement?**
   1. He wants all the money
   2. He will return the money
   3. He will assume final responsibility
   4. He will resist all enquiries

**Answer:**

**He will assume final responsibility**

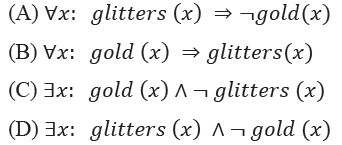
**Explanation:**

*’The buck stops here’ means – Responsibility is not passed on beyond this point.*

1. **Consider the statement**

**“Not all that glitters is gold”**

**Predicate *glitters(x)* is true if x glitters and predicate *gold(x)* is true if x is gold. Which one of the following logical formulae represents the above statement?**

[](https://www.geeksforgeeks.org/wp-content/uploads/gq/2014/04/GATECS2014Q11.png)

* 1. A
  2. B
  3. C
  4. D
  5. E

**Answer:**

**D**

**Explanation:**

*The statement “Not all that glitters is gold” can be expressed as follows :*

*¬(?x(glitters(x)?gold(x)) … (1)*

*Where ?x(glitters(x)?gold(x) refers that all glitters is gold. Now,*

*?x¬(glitters(x)?gold(x)) … (2), Since we know ¬?x() = ?x¬()*

*(Where => refers to -> All and ?x refers to -> There exists some).*

*As we know, A?B is true only in the case that either A is false or B is true. It can also defined in the other way :*

*A?B=¬A?B (negationA or B ) … (3)*

*From equation (2) and (3), we have**?x(¬(¬glitters(x)?gold(x))*

*??x(glitters(x)?¬gold(x)) … (4), Negation cancellation ¬(¬) = () : and ¬(()?()) = (¬()?¬()) .*

*So Answer is (D) .*

1. **Choose the most appropriate phrase from the options given below to complete the following sentence.  
   “India is a post-colonial country because”**
   1. it was a former British colony
   2. Indian Information Technology professionals have colonized the world
   3. India does not follow any colonial practices
   4. India has helped other countries gain freedom

**Answer:**

**it was a former British colony**

**Explanation:**

*A country is called postcolonial if it came into existence after the colonies of the British and the Europeans were abolished and the countries then under their rule were declared independent. India was under the British colonial rule till 1947, i.e. it was a former British colony and thus is called a postcolonial country. So, A is the correct option.*

1. **Who \_\_\_\_\_\_\_\_\_\_\_ was coming to see us this evening?**
   1. you said
   2. did you say
   3. did you say that
   4. had you

**Answer:**

**did you say**

1. **Match the columns.**
2. **Column 1 Column 2**
3. **1) eradicate P) misrepresent**
4. **2) distort Q) soak completely**
5. **3) saturate R) use**
6. **4) utilize S) destroy utterly** 
   1. 1:S, 2:P, 3:Q, 4:R
   2. 1:P, 2:Q, 3:R, 4:S
   3. 1:Q, 2:R, 3:S, 4:P
   4. 1:S, 2:P, 3:R, 4:Q

**Answer:**

**1:S, 2:P, 3:Q, 4:R**

**Explanation:**

*“eradicate” means “destroy utterly”  
“distort” matches with “misrepresent”  
“saturate” matches with “soak completely”  
“utilize” matches with “use”*

1. **The old city of Koenigsberg, which had a German majority population before World War 2, is now called Kaliningrad. After the events of the war, Kaliningrad is now a Russian territory and has a predominantly Russian population. It is bordered by the Baltic Sea on the north and the countries of Poland to the south and west and Lithuania to the east respectively. Which of the statements below can be inferred from this passage?**
   1. Kaliningrad was historically Russian in its ethnic make up
   2. Kaliningrad is a part of Russia despite it not being contiguous with the rest of Russia
   3. Koenigsberg was renamed Kaliningrad, as that was its original Russian name
   4. Poland and Lithuania are on the route from Kaliningrad to the rest of Russia

**Answer:**

**Kaliningrad is a part of Russia despite it not being contiguous with the rest of Russia**

**Explanation:**

*A is not true in the light of the given facts*

* 1. *A is incorrect because the First line says that Kaliningrad (Koenigsberg before war) had a majority of the German population before the war. So, it was historically German and not Russian.*
  2. ***B is correct as although Kaliningrad is not contiguous with the rest of Russia (being surrounded by countries of Poland in the south and west, Lithuania in the east and Baltic sea on the north), it has a predominantly Russian population.***
  3. *C cannot be inferred from the passage as it is nowhere in the passage what the original Russian name of Koenigsberg was.*
  4. *D is also not true because no data about the route is mentioned in the passage.*

***So, B is the correct option***

1. **The number of people diagnosed with dengue fever (contracted from the bite of a mosquito) in north India is twice the number diagnosed last year. Municipal authorities have concluded that measures to control the mosquito population have failed in this region. Which one of the following statements, if true, does not contradict this conclusion?**
   1. A high proportion of the affected population has returned from neighbouring countries where dengue is prevalent
   2. More cases of dengue are now reported because of an increase in the Municipal Office’s administrative efficiency
   3. Many more cases of dengue are being diagnosed this year since the introduction of a new and effective diagnostic test
   4. The number of people with malarial fever (also contracted from mosquito bites) has increased this year

**Answer:**

**The number of people with malarial fever (also contracted from mosquito bites) has increased this year**

**Explanation:**

* 1. *A contradicts the conclusion of the municipal authorities. So, A is not the correct choice.*
  2. *B is an incorrect choice because there is no data in the passage relating the reporting of cases and the efficiency of the administrative capabilities of the municipal authorities.*
  3. *C is also incorrect as it contradicts the conclusion of the municipal authorities.*
  4. ***D is the correct choice as both malarial fever and dengue fever are caused by mosquito bite****. If dengue fever had increased because of some other reason other than that concluded by the municipal authorities, then there would not have been an increase in the people with malarial fever. This statement supports the conclusion of the municipal authorities.*

1. **Select the correct SYNONYM for:  
   Together**
   1. Common
   2. Obstinate
   3. Same
   4. Jointly

**Answer:**

**D**

1. **Select the correct SYNONYM for:  
   Almost**
   1. Crafty
   2. Nearly
   3. Relevant
   4. Summary

**Answer:**

**B**

**B**

1. **Select the correct ANTONYM for:  
   Arise**
   1. Appear
   2. Dive
   3. Occur
   4. Emerge

**Answer:**

**B**

**Logical Reasoning**

1. **Find wrong number in series:  
   2, 3, 6, 0, 8, -3, 14, -6**
   1. 3
   2. 0
   3. 8
   4. 3

**Answer:**

**C**

**Explanation:**

*Two alternate series:  
2 + 4 = 6,  
3 – 3 = 0  
6 + 4 = 10,  
0 – 3 = -3  
10 + 4 = 14  
-3 – 3 = -6*

1. **Find wrong number in series:  
   1, 8, 27, 64, 81, 216, 343**
   1. 1
   2. 27
   3. 81
   4. 343

**Answer:**

**81**

**Explanation:**

*cubes of natural numbers  
81 is not the cube of desired number*

**Directions to solve Question 3 and 4: Each of the questions given below consists of a statement and/or a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statement(s) is/are sufficient to answer the given question.  
Read both the statements and Give answer  
(a) if the data in Statement I alone is sufficient to answer the question, while the data in Statement II alone is not sufficient to answer the question.  
(b) if the data in Statement II alone is sufficient to answer the question, while the data in Statement I alone is not sufficient to answer the question.  
(c) if the data in each Statement I and Statement II alone is sufficient to answer the question.  
(d) if the data even in both Statements I and II together are not sufficient to answer the question.  
(e) if the data in both Statements I and II together are necessary to answer the question.**

1. **Is the integer i is divisible by 20?  
   I. 4 is a factor of i  
   II. i is a factor of 10**
   1. (a)
   2. (b)
   3. (c)
   4. (d)
   5. (e)

**Answer:**

**(e) if the data in both Statements I and II together are necessary to answer the question.**

1. **In which year X was born?  
   Statement I. X is 30 years younger than his mother  
   Statement II. Rahul’s elder brother is 25 years younger than his mother**
   1. (a)
   2. (b)
   3. (c)
   4. (d)
   5. (e)

**Answer:**

**(d) if the data even in both Statements I and II together are not sufficient to answer the question.**

1. Consider the following phrase:  
   **Statement:** All C are J.  
   All J are B.  
   No B is R.  
   **Conclusions:**  
   **I.** All B are C.  
   **II.** Some J are C  
   **Choose the correct option given below:**
   1. only conclusion I is true.
   2. only conclusion II is true.
   3. either conclusion I or conclusion II is true
   4. neither conclusion I nor conclusion II is true
   5. both conclusions I and II are true.

**Answer:**

**(b) only conclusion II is true.**

**Explanation:**

*All B are not C*

1. Consider the following phrase:  
   **Statement:** The committee humiliated Shahrukh in the presence of his colleagues.  
   **Assumptions:**  
   **I.** The committee did not like Shahrukh  
   **II.** Shahrukh was not popular with his colleagues  
   Choose the correct option given below.
   1. If only assumption I is implicit
   2. If only assumption II is implicit.
   3. If either I or II is implicit.
   4. If neither I nor II is implicit.
   5. If both I and II are implicit.

**Answer:**

**(d)**

1. Consider the following phrase:  
   **Statement:** People who oppose too much are the people that have done it  
   **Assumptions:**  
   **I.** It is easier said than done  
   **II.** People are dual faced  
   Choose the correct option given below.
   1. If only assumption I is implicit
   2. If only assumption II is implicit.
   3. If either I or II is implicit.
   4. If neither I nor II is implicit.
   5. If both I and II are implicit.

**Answer:**

**(e)**

1. **Statements:**  
   I – Some S are L  
   II – Some C are P  
   III – All P is R  
   **Conclusions:**  
   I. Some P are L  
   II. Some C are R  
   **Choose the correct option given below:**
   1. only conclusion I is true.
   2. only conclusion II is true.
   3. either conclusion I or conclusion II is true
   4. neither conclusion I nor conclusion II is true
   5. both conclusions I and II are true.

**Answer:**

**(d) neither conclusion I nor conclusion II is true**

1. Find wrong number in series: 4, 5, 7, 12, 19, 35
   1. 12
   2. 19
   3. 35
   4. 7

**Answer:**

**12**

**Explanation:**

*4+20 = 5  
5+21 = 7  
7+22 = 11  
11+23 = 19  
19+24 = 35*

1. Find wrong number in series: -1, 4, 9, 16, -25
   1. 4
   2. 9
   3. 16
   4. -25

**Answer:**

**9**

**Explanation:**

*Tn = -12 + 22 – 32 + 42 – …..*

1. **Find a positive number which when increased by 16 is equal to 80 times the reciprocal of the number**.
   1. 20
   2. -4
   3. -10
   4. 4

**Answer:**

**4**

**Explanation:**

*Let the number be x.*

*Then x + 16 = 80 \* (1/x)*

*x2 + 16x – 80 = 0  
x2 + 20x – 4x – 80 =0  
(x + 20) (x -4)  
Therefore x = 4*

1. **The LCM. of two numbers is 30 and their HCF. is 15. If one of the numbers is 30, then what is the other number?**
   1. 30
   2. 25
   3. 15
   4. 20

**Answer:**

**15**

**Explanation:**

*Say another number = x*

*Product of two numbers = product of HCF and LCM  
=> x.30 = 15\*30  
=> x=15*

1. **Which of the following is the largest of all ?**
   1. 7/8
   2. 15/16
   3. 23/24
   4. 31/32

**Answer:**

**31/32**

**Explanation:**

*LCM (8, 16, 24, 32) = 96  
7/8 = 84/96  
15/16 = 90/96  
23/24 = 92/96  
31/32 = 93/96  
Hence, 31/32 is the largest of all.*

1. **Three friends A, B and C are employed to make pastries in a bakery. Working individually, they can make 60, 30 and 40 pastries respectively in an hour. They decided to work together but due to lack of resources, they had to work on shifts of 30 minutes. Find the time taken to make 185 pastries.**
   1. 4 hours
   2. 3 hours 45 minutes
   3. 4 hours 15 minutes
   4. 5 hours

**Answer:**

**4 hours 15 minutes**

**Explanation:**

*It is given that A, B and C make 60, 30 and 40 pastries respectively in an hour.  
=> In 30 minutes, they will make 30, 15 and 20 pastries respectively.  
So, in one cycle of 1 hour 30 minutes where each works for 30 minutes, pastries made = 30 + 15 + 20 = 65  
Now, in 2 cycles (3 hours), 130 pastries would be made.  
In the next 30 minutes, A would make 30 pastries.  
So, total time elapsed = 3 hours 30 minutes and pastries made = 130 + 30 = 160  
In the next 30 minutes, B would make 15 pastries.  
So, total time elapsed = 4 hours and pastries made = 160 + 15 = 175  
In the next 15 minutes, C would make 10 pastries.  
So, total time elapsed = 4 hours 15 minutes and pastries made = 175 + 10 = 185  
Therefore, total time taken = 4 hours 15 minutes*

1. **Three pipes A, B and C were opened to fill a cistern. Working alone, A, B and C require 12, 15 and 20 minutes respectively. Another pipe D, which is a waste pipe, can empty the filled tank in 30 minutes working alone. What is the total time (in minutes) taken to fill the cistern if all the pipes are simultaneously opened ?**
   1. 5
   2. 6
   3. 7
   4. 8

**Answer:**

**6**

**Explanation:**

*Let the capacity of the cistern be LCM(12, 15, 20, 30) = 60 units.  
=> Efficiency of pipe A = 60 / 12 = 5 units / minute  
=> Efficiency of pipe B = 60 / 15 = 4 units / minute  
=> Efficiency of pipe C = 60 / 20 = 3 units / minute  
=> Efficiency of pipe D = 60 / 30 = 2 units / minute  
=> Combined efficiency of pipe A, pipe B, pipe C and pipe D = 10 units / minute  
   
Therefore, time required to fill the cistern if all the pipes are opened simultaneously = 60 / 10 = 6 minutes*

1. **The ratio of the speed of two trains is 7:8. If the second train covers 400 km in 4 h, find out the speed of the first train.**
   1. 69.4 km/h
   2. 78.6 km/h
   3. 87.5 km/h
   4. 40.5 km/h

**Answer:**

**87.5 km/h**

**Explanation:**

*Let the speed of the two trains be 7x and 8x.  
Then, 8x = 400 / 4  
=> 8x = 100 => x = 12.5 km/h.  
Hence, speed of the first train = 7x = 7 × 12.5 = 87.5 km/h.*

1. **A motorboat crosses a certain distance in 1 hour and comes back in 1½ hours. If the stream is running at 3 km/h, find out the speed of motorboat in still water.**
   1. 10 km/h
   2. 15 km/h
   3. 12 km/h
   4. None of these

**Answer:**

**15 km/h**

**Explanation:**

*Let the speed of motorboat in still water be x km/h. Then,  
Downstream speed = (x + 3) km/h.  
Upstream speed = (x – 3) km/h.  
Then, (x + 3) × 1 = (x – 3) × 3/2  
=> 2x + 6 = 3x – 9  
=> x = 15.  
So, the speed of motorboat in still water is 15 km/h.*

1. **Barack spends Rs 6650 to buy some goods and gets a rebate of 6% on it. After this, he pays a sales tax of 10%. What is his total expenditure?**
   1. Rs 6870.10
   2. Rs 6876.10
   3. Rs 6865.10
   4. Rs 6776.10

**Answer:**

**Rs 6876.10**

**Explanation:**

*Rebate received by Barack = 6% of Rs 6650 = 6/100 × 6650 = 3/5 × 665 = Rs 399.  
Sales Tax paid by Barack = 10% of Rs (6650-399) = 10% of Rs 6251 = Rs 625.10.  
Therefore, Barack’s total expenditure = Rs (6251 + 625.10) = Rs 6876.10.*

1. **In a box, there are 10p, 25p and 50p coins in the ratio 4:9:5 with the total sum of Rs 206. How many coins of each kind does the box have?**
   1. 200, 360, 160
   2. 135, 250, 150
   3. 90, 60, 110
   4. Cannot be determined

**Answer:**

**200, 360, 160**

**Explanation:**

*Let the number of 10p, 25p, 50p coins be 4x, 9x, 5x respectively. Then,  
4x/10 + 9x/4 + 5x/2 = 206 (Since, 10p = Rs 0.1, 25p = Rs 0.25, 50p = Rs 0.5)  
=> 8x + 45x + 50x = 4120 (Multiplying both sides by 20 which is the LCM of 10, 4, 2)  
=> 103x = 4120  
=> x = 40.  
Therefore,  
No. of 10p coins = 4 x 40 = 160 (= Rs 16)  
No. of 25p coins = 9 x 40 = 360 (= Rs 90)  
No. of 50p coins = 5 x 40 = 200 (= Rs 100)*

1. **At present, the ratio between ages of Ram and Shyam is 6:5 respectively. After 7 years, Shyam’s age will be 32 years. What is the present age of Ram?**
   1. 32
   2. 40
   3. 30
   4. 36

**Answer:**

**30**

**Explanation:**

*Let the present age of Ram and Shyam be 6x years and 5x years respectively.*

*Then 5x + 7 = 32  
=> 5x = 25  
=> x = 5  
=> Present age of Ram = 6x = 30 years*

**Verbal Reasoning**

1. **While trying to collect(I) an envelope from under the table (II), Mr. X fell down (III) and was losing consciousness (IV)**

**Which one of the above underlined parts of the sentence is NOT appropriate?**

* 1. I
  2. II
  3. III
  4. IV

**Answer:**

**IV**

**Explanation:**

*Here, part IV is incorrect. “was losing consciousness” shows the continuous process of losing consciousness, but he was not in the process, rather he just lost consciousness.  
So, the correction is ” was losing consciousness ”  => ” lost consciousness “.*

*Thus, IV is the correct choice.*

*Please comment below if you find anything wrong in the above post.*

1. **If she \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ how to calibrate the instrument, she \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ done the experiment.**
   1. knows, will have
   2. knew, had
   3. had known, could have
   4. should have known, would have

**Answer:**

**had known, could have**

**Explanation:**

*A)knows, will have //Present, future*

*B)knew, had //past past*

*c)had known, could have//****past perfect, perfect conditional***

*D)should have known, would have //present, future*

*In a Type 3 conditional sentence, the tense in the ‘if’ clause is the past perfect, and the tense in the main clause is the perfect conditional or the*[*perfect continuous conditional*](http://www.edufind.com/english-grammar/perfect-continuous-conditional/)*.*

| **If clause (condition)** | **Main clause (result)** |
| --- | --- |
| **If + past perfect** | **perfect conditional or perfect continuous conditional** |
| If this thing had happened | that thing would have happened. |

1. **Choose the word that is opposite in meaning to the word “coherent”.**
   1. sticky
   2. well-connected
   3. rambling
   4. friendly

**Answer:**

**rambling**

**Explanation:**

*Coherent – Adj.  
Meaning – (of an argument, theory, or policy) logical and consistent.*

*Rambling – Adj.  
Meaning – (of writing or speech) lengthy and confused or inconsequential.*

*Hence both are opposite to each other.*

1. **Didn’t you buy \_\_\_\_\_\_\_\_\_ when you went shopping?**
   1. any paper
   2. much paper
   3. no paper
   4. a few paper

**Answer:**

**any paper**

**Explanation:**

*In general, any is used in negative sentences and questions.*

1. **Which of the following options is the closest in meaning to the sentence below?  
   “She enjoyed herself immensely at the party.”**
   1. She had a terrible time at the party
   2. She had a horrible time at the party
   3. She had a terrific time at the party
   4. She had a terrifying time at the party

**Answer:**

**She had a terrific time at the party**

**Explanation:**

*Except for C, all other options indicate that she didn’t enjoy.*

*Horrible and terrible means****fearful****.*

*Terrific means****wonderful.***

1. **Which one of the following combinations is incorrect?**
   1. Acquiescence – Submission
   2. Wheedle – Roundabout
   3. Flippancy – Lightness
   4. Profligate – Extravagant

**Answer:**

**Wheedle - Roundabout**

**Explanation:**

*Flippancy ---> lack of respect or seriousness.*

*Acquiescence ---> the reluctant acceptance of*

*something without protest.*

*Wheedle ---> use endearments or flattery to*

*persuade someone to do something or*

*Profligate ---> recklessly extravagant*

1. **Select the alternative meaning of the underlined part of the sentence.  
   The chain snatchers took to their heels when the police party arrived.**
   1. took shelter in a thick jungle
   2. open indiscriminate fire
   3. took to flight
   4. unconditionally surrendered

**Answer:**

**took to flight**

**Explanation:**

*Both****took to flight****and****took to their heels****mean run away.*

1. **Select the correct SYNONYM for:  
   Shrill**
   1. Calm
   2. Low
   3. Noisy
   4. Mild

**Answer:**

**C**

1. **Select the correct SYNONYM for:  
   Rowdy**
   1. Calm
   2. Soft
   3. Loud
   4. Mild

**Answer:**

**C**

1. **Select the correct ANTONYM for:  
   Rude**
   1. Obscene
   2. Blunt
   3. Abusive
   4. Decent

**Answer:**

**D**

**Logical Reasoning**

1. **Find wrong number in series:  
   4, 5, 7, 12, 19, 35**
   1. 12
   2. 19
   3. 35

**Answer:**

**12**

**Explanation:**

*4 + 20 = 5  
5 + 21 = 7  
7 + 22 = 11  
11 + 23 = 19  
19 + 24 = 35*

1. **Find wrong number in series:  
   23, 29, 31, 33, 41, 43, 47**
   1. 29
   2. 33
   3. 41
   4. 47

**Answer:**

**33**

**Explanation:**

*prime numbers from 23*

**Directions to solve Question 3 and 4: Each of the questions given below consists of a statement and/or a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statement(s) is/are sufficient to answer the given question.  
Read both the statements and Give answer  
(a) if the data in Statement I alone is sufficient to answer the question, while the data in Statement II alone is not sufficient to answer the question.  
(b) if the data in Statement II alone is sufficient to answer the question, while the data in Statement I alone is not sufficient to answer the question.  
(c) if the data in each Statement I and Statement II alone is sufficient to answer the question.  
(d) if the data even in both Statements I and II together are not sufficient to answer the question.  
(e) if the data in both Statements I and II together are necessary to answer the question.**

1. **What is the value of (x2/y2) + (y2/x2)?  
     
   I. x/y + y/x = 8  
   II. x/y – y/x = 4**
   1. (a)
   2. (b)
   3. (c)
   4. (d)
   5. (e)

**Answer:**

**(c) if the data in each Statement I and Statement II alone is sufficient to answer the question.**

1. **How many children are there between A and B in a row of children?  
   Statement I. A is tenth from the left in the row.  
   Statement II. B is exactly in the middle and there are fifteen children towards his right.**
   1. (a)
   2. (b)
   3. (c)
   4. (d)
   5. (e)

**Answer:**

**(e) if the data in both Statements I and II together are necessary to answer the question**

1. Consider the following phrase:  
   **Statement:** All L are W.  
   Some P are W  
   All P are B  
   **Conclusions:**  
   **I.** Some B are W  
   **II.** Some W are L  
   **Choose the correct option given below:**
   1. only conclusion I is true.
   2. only conclusion II is true.
   3. either conclusion I or conclusion II is true
   4. neither conclusion I nor conclusion II is true
   5. both conclusions I and II are true.

**Answer:**

**(e)**

1. Consider the following phrase:  
   **Statement:** Mutual funds are subject to market risk  
   **Assumptions:**  
   **I.** One must not invest in Mutual Funds  
   **II.** One must consult a financial advisor before investing in this  
   Choose the correct option given below.
   1. If only assumption I is implicit
   2. If only assumption II is implicit.
   3. If either I or II is implicit.
   4. If neither I nor II is implicit.
   5. If both I and II are implicit.

**Answer:**

**(b)**

1. Consider the following phrase:  
   **Statement:** Money is a key factor in politics  
   **Assumptions:**  
   **I.** Poor should not involve in Politics  
   **II.** One can get into Politics inorder to get rich  
   Choose the correct option given below.
   1. If only assumption I is implicit
   2. If only assumption II is implicit.
   3. If either I or II is implicit.
   4. If neither I nor II is implicit.
   5. If both I and II are implicit.

**Answer:**

**(d)**

1. **Statements:**  
   I – Some S are L  
   II – Some C are P  
   III – All P is R  
   **Conclusions:**  
   I. Some P are L  
   II. Some C are R  
   **Choose the correct option given below:**
   1. only conclusion I is true.
   2. only conclusion II is true.
   3. either conclusion I or conclusion II is true
   4. neither conclusion I nor conclusion II is true
   5. both conclusions I and II are true.

**Answer:**

**(d) neither conclusion I nor conclusion II is true**

1. Find wrong number in series: 0, 1, 2, 3, 5, 8, 13, ..
   1. 0
   2. 1
   3. 2
   4. 3

**Answer:**

**2**

**Explanation:**

*Fibonacci Series*

1. Find wrong number in series: 1, -8, 27, 64, 125, -216
   1. -8
   2. 27
   3. 64
   4. 125

**Answer:**

**64**

**Explanation:**

*Tn = 13 – 23 + 33 – 43 + …..*

1. **What is the sum of two consecutive odd numbers, the difference of whose squares is 56?**.
   1. 30
   2. 28
   3. 34
   4. 32

**Answer:**

**28**

**Explanation:**

*Let the no. be x and (x +2).  
Then (x +2)2 – x2 = 56  
4x + 4 = 56  
x + 1 = 14  
x = 13  
Sum of numbers = x + (x +2) = 28*

1. **Express 252 as a product of primes.**
   1. 2 \* 2 \* 3 \* 3 \* 7
   2. 3\* 3 \* 3 \* 3 \* 7
   3. 2 \* 2 \* 2\* 3 \* 7
   4. 2 \* 3 \* 3 \* 3 \* 7

**Answer:**

**2 \* 2 \* 3 \* 3 \* 7**

1. **Two numbers are in the ratio 3 : 5. If their L.C.M. is 75. what is sum of the numbers?**
   1. 25
   2. 45
   3. 40
   4. 50

**Answer:**

**40**

**Explanation:**

*1st number = 3x  
2nd number =5x  
LCM of 3x and 5x is 15x  
=> 15x = 75  
=> x = 5  
sum = 15+25 =40*

1. **A person employed a group of 20 men for a construction job. These 20 men working 8 hours a day can complete the job in 28 days. The work started on time but after 18 days, it was observed that two-thirds of the work was still pending. To avoid penalty and complete the work on time, the employer had to employ more men and also increase the working hours to 9 hours a day. Find the additional number of men employed if the efficiency of all men is the same.**
   1. 40
   2. 44
   3. 64
   4. 80

**Answer:**

**44**

**Explanation:**

*Let the total work be 3 units and additional men employed after 18 days be ‘x’.  
=> Work done in first 18 days by 20 men working 8 hours a day = (1/3) x 3 = 1 unit  
=> Work done in last 10 days by (20 + x) men working 9 hours a day = (2/3) x 3 = 2 unit  
Here, we need to apply the formula****M1 D1 H1 E1 / W1 = M2 D2 H2 E2 / W2****, where  
M1 = 20 men  
D1 = 18 days  
H1 = 8 hours/day  
W1 = 1 unit  
E1 = E2 = Efficiency of each man  
M2 = (20 + x) men  
D2 = 10 days  
H2 = 9 hours/day  
W2 = 2 unit  
   
So, we have  
20 x 18 x 8 / 1 = (20 + x) x 10 x 9 / 2  
=> x + 20 = 64  
=> x = 44  
Therefore, additional men employed = 44*

1. **Three pipes A, B and C were opened to fill a tank. Working alone, A, B and C require 10, 15 and 20 hours respectively. A was opened at 7 AM, B at 8 AM and C at 9 AM. At what time the tank would be completely filled, given that pipe C can only work for 3 hours at a stretch, and needs 1-hour standing time to work again.**
   1. 12 : 00 PM
   2. 12 : 30 PM
   3. 1 : 00 PM
   4. 1 : 30 PM

**Answer:**

**12 : 30 PM**

**Explanation:**

*Let the capacity of the tank be LCM (10, 15, 20) = 60  
=> Efficiency of pipe A = 60 / 10 = 6 units / hour  
=> Efficiency of pipe B = 60 / 15 = 4 units / hour  
=> Efficiency of pipe C = 60 / 20 = 3 units / hour  
=> Combined efficiency of all three pipes = 13 units / hour  
   
Till 9 AM, A works for 2 hours and B work for 1 hour.  
=> Tank filled in 2 hours by A = 12 units  
=> Tank filled in 1 hour by B = 4 units  
=> Tank filled till 9 AM = 16 units  
=> Tank still empty = 60 – 16 = 44 units  
   
Now, all three pipes work for 3 hours with the efficiency of 13 units / hour.  
=> Tank filled in 3 more hours = 39 units  
=> Tank filled till 12 PM = 16 + 39 units = 55 units  
=> Tank empty = 60 – 55 = 5 units  
   
Now, C is closed for 1 hour and these remaining 5 units would be filled by A and B working together with the efficiency 10 units / hour.  
=> Time taken to fill these remaining 5 units = 5 / 10 = 0.5 hours  
   
Therefore, time at which the tank will be completely filled = 12 PM + 0.5 hours = 12 : 30 PM*

1. **Rajdhani Express halts for 3 minutes every time it covers a distance of 75 km. If the train runs at a speed of 100 km/h and the destination is 600 km away from the source, find out the time taken to reach the destination station from the source station.**
   1. 6 h 21 min
   2. 6 h 22 min
   3. 6 h 23 min
   4. 6 h 24 min

**Answer:**

**6 h 21 min**

**Explanation:**

*Since the train runs at a speed of 100 km/h, the time taken to cover 600 km = 600/100 = 6 h.  
Number of times the train halts = 600/75 – 1 = 7.  
Since the train halts for 3 minutes at each stop, the time spent waiting = 7 \* 3 = 21 min.  
Therefore, total time taken = 6 h 21 min.*

1. **A train crosses a pole in 20 sec. If the length of train is 500 meters, what is the speed of the train?**
   1. 27 m/s
   2. 20 m/s
   3. 25 m/s
   4. 30 m/s

**Answer:**

**25 m/s**

**Explanation:**

*V = 500/20 = 25 m/s*

1. **Felix spends 66.66% of his salary and saves Rs 1200 every month. Calculate his monthly expenditure in Rupees.**
   1. Rs 2402
   2. Rs 2400
   3. Rs 2401
   4. Rs 2405

**Answer:**

**Rs 2400**

**Explanation:**

*Let Felix’s monthly salary be Rs x. Then,  
(100 – 66.66)% of x = Rs 1200  
=> 33.33 % of x = Rs 1200  
=> x/3 = Rs 1200  
=> x = Rs 3600.  
Therefore, his monthly expenditure = 3600 – 1200 = Rs 2400.*

1. **Mark, Steve and Bill get their salaries in the ratio of 2:3:5. If their salaries are incremented by 15%, 10%, and 20% respectively, the new ratio of their salaries becomes:**
   1. 8:16:15
   2. 23:33:60
   3. 33:30:20
   4. 21:25:32

**Answer:**

**23:33:60**

**Explanation:**

*Let their old salaries be 2a, 3a, 5a respectively.  
Then, their new salaries become:  
115% of 2a = 2a x 1.15 = 2.3a  
110% of 3a = 3a x 1.10 = 3.3a  
120% of 5a = 5a x 1.20 = 6a  
So, the new ratio becomes  
2.3a:3.3a:6a  
Upon simplification, this becomes  
23:33:60*

1. **The present ages of A, B and C are in proportions 4:5:9. Nine years ago, sum of their ages was 45 years. Find their present ages in years**
   1. 15, 20, 35
   2. 20, 24, 36
   3. 20, 25, 45
   4. 16, 20, 36

**Answer:**

**16, 20, 36**

**Explanation:**

*Let the current ages of A, B and C be ax years, 5x years and 9x respectively.  
Then (4x-9) + (5x-9) + (9x-9) =45  
=> 18x – 27 = 45  
=> 18x = 72  
=> x = 4  
Present ages of A, B and C are 4x = 16, 5x = 20, 9x = 36 respectively.*

**Verbal Reasoning**

1. **We \_\_\_\_\_\_\_\_\_\_ our friend’s birthday and we \_\_\_\_\_\_\_\_ how to make it up to him.**
   1. Completely forgot — don’t just know
   2. Forgot completely — don’t just know
   3. Completely forgot — just don’t know
   4. Forgot completely — just don’t know

**Answer:**

**Completely forgot --- just don’t know**

**Explanation:**

*We Completely forgot our friend’s birthday and we just don’t know how to make it up to him.*

1. **Choose the statement where underlined word is used correctly.**
   1. The industrialist had a personnel jet
   2. I write my experience in my personnel diary
   3. All personnel are being given the day off
   4. Being religious is a personnel aspect

**Answer:**

**All personnel are being given the day off**

**Explanation:**

*personnel mean a body of persons employed in an organization or place of work.*

1. **A generic term that includes various items of clothing such as a skirt, a pair of trousers and a shirt is**
   1. fabric
   2. textile
   3. fibre
   4. apparel

**Answer:**

**fibre**

**Explanation:**

*apparel means clothing.*

1. **Out of the following four sentences, select the most suitable sentence with respect to grammar and usage:**
   1. Since the report lacked needed information, it was of no use to them
   2. The report was useless to them because there were no needed information in it
   3. Since the report did not contain the needed information, it was not real useful to them
   4. Since the report lacked needed information, it would not had been useful to them

**Answer:**

**Since the report lacked needed information, it was of no use to them**

**Explanation:**

*Only option (A) seems correct.  
In option (B) –****were****is wrong used here.  
In option (C) –****real****is wrong, should be really  
In option (D) –****had****is wrong. would not have been is correct.*

1. **The Tamil version of \_\_\_\_\_\_\_\_ John Abraham-starrer Madras Cafe \_\_\_\_\_ cleared by the Censor Board with no cuts last week, but the film’s distributors \_\_\_\_\_\_ no takers among the exhibitors for a release in Tamil Nadu \_\_\_\_\_\_\_\_\_ this Friday.**
   1. Mr., was, found, on
   2. a, was, found, at
   3. the, was, found, on
   4. a, being, find at

**Answer:**

**the, was, found, on**

1. **Extreme focus on syllabus and studying for tests has become such a dominant concern of Indian students that they close their minds to anything \_\_\_\_\_\_\_\_ to the requirements of the exam.**
   1. related
   2. extraneous
   3. outside
   4. useful

**Answer:**

**extraneous**

1. **Select the pair that best expresses a relationship similar to that expressed in the pair:  
   Children : Pediatrician**
   1. Adult : Orthopaedist
   2. Females : Gynaecologist
   3. Kidney : Nephrologist
   4. Skin : Dermatologist

**Answer:**

**Females : Gynaecologist**

**Explanation:**

*Pediatrician is a doctor for children. Gynaecologist is a doctor for Females.*

1. **Select the correct SYNONYM for:  
   savage**
   1. barbaric
   2. new
   3. same
   4. nice

**Answer:**

**A**

1. **Select the correct SYNONYM for:  
   Feral**
   1. Crafty
   2. Nearly
   3. Relevant
   4. Ferocious

**Answer:**

**D**

1. **Select the correct ANTONYM for:  
   Physical**
   1. Substantial
   2. Immaterial
   3. Real
   4. Natural

**Answer:**

**B**

**Logical Reasoning**

1. **Find wrong number in series:  
   8, 24, 12, 36, 18, 54, 26**
   1. 12
   2. 24
   3. 18
   4. 26

**Answer:**

**15**

**Explanation:**

*Two alternate series:  
8 \* 3 = 24  
24 / 2 = 12  
12 \* 3 = 36  
36 / 2 = 18  
18 \* 3 = 54  
54 / 2 = 27*

1. **Find wrong number in series:  
   7, 26, 63, 124, 215, 342, 496**
   1. 7
   2. 63
   3. 215
   4. 496

**Answer:**

**496**

**Explanation:**

*(23 – 1), (33 – 1), (43 – 1), (53 – 1), (63 – 1), (73 – 1), (83 – 1) = 511*

**Directions to solve Question 3 and 4: Each of the questions given below consists of a statement and/or a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statement(s) is/are sufficient to answer the given question.  
Read both the statements and Give answer  
(a) if the data in Statement I alone is sufficient to answer the question, while the data in Statement II alone is not sufficient to answer the question.  
(b) if the data in Statement II alone is sufficient to answer the question, while the data in Statement I alone is not sufficient to answer the question.  
(c) if the data in each Statement I and Statement II alone is sufficient to answer the question.  
(d) if the data even in both Statements I and II together are not sufficient to answer the question.  
(e) if the data in both Statements I and II together are necessary to answer the question.**

1. **What is the probability that x3 – 8 = 0 when x is selected from a set of 8 integers?  
   I. The smallest number in the set is -11  
   II. The arithmetic mean of the set is 1/8.**
   1. (a)
   2. (b)
   3. (c)
   4. (d)
   5. (e)

**Answer:**

**(d) if the data even in both Statements I and II together are not sufficient to answer the question.**

1. **How many children are there in a row?  
   Statement I. A is tenth from the left in the row.  
   Statement II. B is exactly in the middle and there are fifteen children towards his right.**
   1. (a)
   2. (b)
   3. (c)
   4. (d)
   5. (e)

**Answer:**

**(b) if the data in Statement II alone is sufficient to answer the question, while the data in Statement I alone is not sufficient to answer the question.**

1. Consider the following phrase:  
   **Statement:** Some S are L  
   Some C are P  
   Some P are R  
   **Conclusions:**  
   **I.** Some P are L  
   **II.** Some C are R  
   **Choose the correct option given below:**
   1. only conclusion I is true.
   2. only conclusion II is true.
   3. either conclusion I or conclusion II is true
   4. neither conclusion I nor conclusion II is true
   5. both conclusions I and II are true.

**Answer:**

**(d)**

1. Consider the following phrase:  
   **Statement:** Fruits are getting costlier day by day  
   **Assumptions:**  
   **I.** Fruits are a rare commodity  
   **II.** One should not eat Fruits  
   Choose the correct option given below.
   1. If only assumption I is implicit
   2. If only assumption II is implicit.
   3. If either I or II is implicit.
   4. If neither I nor II is implicit.
   5. If both I and II are implicit.

**Answer:**

**(d)**

1. Consider the following phrase:  
   **Statement:** Cactus plants grow in deserts and requires little water  
   **Assumptions:**  
   **I.** All plants that grow in desert require little water  
   **II.** Cactus plants might not grow in place with more water  
   Choose the correct option given below.
   1. If only assumption I is implicit
   2. If only assumption II is implicit.
   3. If either I or II is implicit.
   4. If neither I nor II is implicit.
   5. If both I and II are implicit.

**Answer:**

**(d)**

1. **Statements:**  
   I – Some S are L  
   II – Some C are P  
   III – All P is R  
   **Conclusions:**  
   I. Some P are L  
   II. Some C are R  
   **Choose the correct option given below:**
   1. only conclusion I is true.
   2. only conclusion II is true.
   3. either conclusion I or conclusion II is true
   4. neither conclusion I nor conclusion II is true
   5. both conclusions I and II are true.

**Answer:**

**(d) neither conclusion I nor conclusion II is true**

1. Find wrong number in series: 3, 15, 35, 63, 143
   1. 15
   2. 35
   3. 63
   4. 143

**Answer:**

**143**

**Explanation:**

*Series: Sn = 1\*3 + 3\*5 + 5\*7 + …*

1. Find wrong number in series: -1, 8, -27, 64, 125
   1. 8
   2. -27
   3. 64
   4. 125

**Answer:**

**125**

**Explanation:**

*Tn = – 13 + 23 – 33 + 43 – …..*

1. **The product of two numbers is 108 and the sum of their squares is 225. The difference of the number is:**.
   1. 5
   2. 4
   3. 3
   4. None of these

**Answer:**

**57**

**Explanation:**

*Let the numbers be x and y.  
Then xy = 108 and x2 + y2 = 225  
(x –y)2 = x2 + y2 – 2xy  
(x –y)2 = 225 – 216  
(x –y)2 = 9  
Therefore (x –y) = 3*

1. **Which of the following has the most number of divisors?**
   1. 99
   2. 101
   3. 176
   4. 182

**Answer:**

**176**

**Explanation:**

*99 = 1 \* 3 \* 3 \* 11  
101 = 1 \* 101  
176 = 1 \* 2 \* 2 \* 2 \* 2 \* 11  
182 = 1 \* 2 \* 7 \* 13  
Clearly, 176 has the most number of divisors.*

1. **Ratio of two numbers is 3:2. If LCM of numbers is 60, then smaller number is?**
   1. 20
   2. 30
   3. 40
   4. 50

**Answer:**

**20**

**Explanation:**

*say, 1st number =3x  
2nd number =2x  
LCM of numbers = 6x  
given LCM = 60  
=> x6 = 60  
=>x = 10*

1. **6 men and 10 women were employed to make a road 360 km long. They were able to make 150 kilometres of road in 15 days by working 6 hours a day. After 15 days, two more men were employed and four women were removed. Also, the working hours were increased to 7 hours a day. If the daily working power of 2 men and 3 women are equal, find the total number of days required to complete the work.**
   1. 19
   2. 35
   3. 34
   4. 50

**Answer:**

**34**

**Explanation:**

*We are given that the daily working power of 2 men and 3 women are equal.  
=> 2 Em = 3 Ew  
=> Em / Ew = 3/2, where ‘Em’ is the efficiency of 1 man and ‘Ew’ is the efficiency of 1 woman.  
Therefore, the ratio of efficiency of man and woman = 3 : 2.  
If ‘k’ is the constant of proportionality, Em = 3k and Ew = 2k.  
Here, we need to apply the formula****=> (Mi Ei) D1 H1 / W1 = (Mj Ej) D2 H2 / W2****, where  
=> (Mi Ei) = (6 x 3k) + (10 x 2k)  
=> (Mj Ej) = (8 x 3k) + (6 x 2k)  
D1 = 15 days  
D2 = Number of days after increasing men and reducing women  
H1 = 6 hours  
H2 = 7 hours  
W1 = 150 km  
W2 = 210 km*

*So, we have  
38k x 15 x 6 / 150 = 36k x D2 x 7 / 210  
=> 38k x 6 = 12k x D2  
=> D2 = 19 days  
Therefore, total days required to complete the work = 15 + 19 = 34 days*

1. **Two pipes A and B can fill a tank in 10 hours and 30 hours respectively. Due to a leak in the tank, it takes 2.5 hours more to fill the tank. How much time would the leak alone will take to empty the tank ?**
   1. 20 hours
   2. 25 hours
   3. 30 hours
   4. 35 hours

**Answer:**

**30 hours**

**Explanation:**

*Let the capacity of the tank be LCM (10, 30) = 30 units  
=> Efficiency of pipe A = 30 / 10 = 3 units / hour  
=> Efficiency of pipe B = 30 / 30 = 1 units / hour  
=> Combined efficiency of both pipes = 4 units / hour  
Now, total time taken by A and B working together to fill the tank if there was no leak = 30 / 4 = 7.5 hours  
=> Actual time taken = 7.5 + 2.5 = 10 hours*

*The tank filled by A and B in these 2.5 hours is the extra work done to compensate the wastage by the leak in 10 hours.  
=> 2.5 hours work of A and B together = 10 hours work of the leak  
=> 2.5 x 4 = 10 x E, where ‘E’ is the efficiency of the leak.  
=> E = 1 unit / hour*

*Therefore, time taken by the leak alone to empty the full tank = 30 / 1 = 30 hours*

1. **Max completes his journey at an average speed of 9 km/h. He covers the first 9 km at a speed of 6 km/h and he takes 1·5 hours to cover the remaining distance. Find out the speed at which he covered the remaining distance.**
   1. 11 km/h
   2. 12 km/h
   3. 13 km/h
   4. 14 km/h

**Answer:**

**12 km/h**

**Explanation:**

*Let the required speed be x km/h.  
Total time taken to finish his journey = (9/6 + 1·5) = 3 hours.  
Total distance = 9 + 1·5x km.  
Given, average speed = 9 km/h.  
Therefore, (9 + 1·5x)/3 = 9  
=> 9 + 1·5x = 27  
=> 1·5x = 18  
=> x = 12 km/h.*

1. **A train crosses a pole in 10 sec. If the length of train is 100 meters, what is the speed of the train in Kmph?**
   1. 34
   2. 36
   3. 30
   4. 32

**Answer:**

**36**

**Explanation:**

*V = 100/10 = 10 m/s = 10\*3600/1000 = 36Km/hr*

1. **Jack and Robert appeared in an examination. Robert scored 9 marks less than Jack. Jack’s score was 56% of the sum of their scores added together. Calculate their individual scores.**
   1. 22 and 33
   2. 41 and 35
   3. 40 and 35
   4. 42 and 33

**Answer:**

**42 and 33**

**Explanation:**

*Let Robert’s score be x. Then, Jack’s score = x+9.  
Now, x+9 = 56% of [(x+9) + x]  
=> x+9 = 14/25 × (2x + 9)  
=> 25 × (x+9) = 14 × (2x+9)  
=> 25x + 225 = 28x + 126  
=> 3x = 99 => x = 33.  
Therefore, Robert scored 33 marks and Jack scored 42 marks.*

1. **In a library, the ratio of the books on Computer, Physics and Mathematics is 5:7:8. If the collection of books is increased respectively by 40%, 50% and 75%, find out the new ratio:**
   1. 3:9:5
   2. 7:5:3
   3. 2:3:4
   4. 2:5:4

**Answer:**

**2:3:4**

**Explanation:**

*40% increase will lead to a factor of 140 and similarly 150 and 175*

*so the new ratio is*

*(5\*140):(7\*150):(8\*175)*

*on solving we get 2:3:4*

1. **A person’s present age is one-third of the age of his mother. After 12 years, his age will be one half of the age of his mother. What is the present age of his mother?**
   1. 30
   2. 34
   3. 38
   4. 36

**Answer:**

**36**

**Explanation:**

*Let the present ages of son and his mother are x years and 3x years.  
Then (3x + 12) = 2( x + 12)  
=> 3x + 12 = 2x + 24  
=> x = 12  
=> Present age of mother = 3x = 36 years*

**Verbal Reasoning**

1. **A rewording of something written or spoken is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   1. paraphrase
   2. paradox
   3. paradigm
   4. paraffin

**Answer:**

**paraphrase**

**Explanation:**

*Paraphrase – To express something in different words so that it becomes easy for the listener to understand.*

*Paradox – A statement which sounds logical, but proves to be illogical when investigated.*

*Paradigm – A way of looking or thinking (perception) about something.*

*Paraffin – A flammable substance used in candles, polishes, etc.*

*So, A is the correct choice.*

1. **Archimedes said, “Give me a lever long enough and a fulcrum on which to place it, and I will move the world.” The sentence above is an example of a \_\_\_\_\_\_\_\_\_\_\_ statement.**
   1. figurative
   2. collateral
   3. literal
   4. figurine

**Answer:**

**figurative**

**Explanation:**

*Here, we are talking about the figure of speech So, figurative is a figure of speech meaning:  
Use of metamorphic meaning of words to explain your thoughts instead of literal use of them.*

1. **The man who is now Municipal Commissioner worked as \_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   1. the security guard at a university
   2. a security guard at the university
   3. a security guard at university
   4. the security guard at the university

**Answer:**

**a security guard at the university**

**Explanation:**

*University considered as an organization that’s why article****the****used before university.  
And Post of security is a general post, so article****a****has been used for security guard.*

*So, option (B) is true.*

1. **Find the odd one in the following group of words.**

**mock, deride, praise, jeer**

* 1. mock
  2. deride
  3. praise
  4. jeer

**Answer:**

**praise**

**Explanation:**

***Meanings*** *mock : tease  
deride : poke/laugh at  
praise : gratitude  
jerk : fool*

*So except praise, all others are describing negative things.*

1. **In the present-day world, no individual or organization even**
2. **think to plough a lonely furrow.**

**The best meaning for the underlined phrase above is:**

* 1. work secretly
  2. remain aligned
  3. do without the help of others
  4. remain non-aligned

**Answer:**

**do without the help of others**

**Explanation:**

*Meaning of the phrase-: Follow a course of action in which one is isolated or in which one can act independently.*

1. **I haven’t worked as a mechanic before, \_\_\_\_\_\_\_\_ I’ve been fixing cars since I was a child.**
   1. always
   2. yet
   3. no longer
   4. already

**Answer:**

**yet**

**Explanation:**

***Always****is an adverb of frequency, like never, often, frequently, and usually.****Yet****is a conjunction meaning nevertheless or however. Yet usually carries a sense of negation, so and yet means the same thing as but still.****No longer****means not now as formerly; not any more.  
We use****already****to show that something has happened sooner than it was expected to happen.*

*Therefore, “yet” is the most appropriate choice here.  
Option (B) is correct.*

1. **\_\_\_\_\_\_\_\_\_\_\_\_ is usually used for something that was done in the past and still applies (multiple events).**
   1. Had/has/have been
   2. Was/were
   3. Had/was/were
   4. All of the above

**Answer:**

**Had/has/have been**

**Explanation:**

***Had/has/have been****is usually used for something that was done in the past and still applies (multiple events).*

***Was/were****usually applies to something done in the past that no longer applies (single event).*

*So, option (A) is correct.*

1. **Select the correct SYNONYM for:  
   Solid**
   1. Stable
   2. Weak
   3. Wobbly
   4. Slack

**Answer:**

**A**

1. **Select the correct SYNONYM for:  
   Thin**
   1. Big
   2. Generous
   3. Fragile
   4. Plump

**Answer:**

**C**

1. **Select the correct ANTONYM for:  
   Efficient**
   1. Able
   2. Potent
   3. Capable
   4. Inadequate

**Answer:**

**D**

**Logical Reasoning**

1. **Find wrong number in series:  
   1, -6, 18, -54, 162, -486**
   1. 1
   2. -6
   3. 162
   4. -486

**Answer:**

**1**

**Explanation:**

*2 \* (-3) = -6  
-6 \* (-3) = 18  
18 \* (-3) = -54  
-54 \* (-3) = 162  
162 \* (-3) = -486*

1. **Find wrong number in series:  
   2, 8, 12, 20, 30, 42, 56, 72**
   1. 8
   2. 20
   3. 42
   4. 72

**Answer:**

**8**

**Explanation:**

*2 + 4 = 6,  
6 + 6 = 12,  
12 + 8 = 20,  
20 + 10 = 30,  
30 + 12 = 42,  
42 + 14 = 56,  
56 + 16 = 72*

**Directions to solve Question 3 and 4: Each of the questions given below consists of a statement and/or a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statement(s) is/are sufficient to answer the given question.  
Read both the statements and Give answer  
(a) if the data in Statement I alone is sufficient to answer the question, while the data in Statement II alone is not sufficient to answer the question.  
(b) if the data in Statement II alone is sufficient to answer the question, while the data in Statement I alone is not sufficient to answer the question.  
(c) if the data in each Statement I and Statement II alone is sufficient to answer the question.  
(d) if the data even in both Statements I and II together are not sufficient to answer the question.  
(e) if the data in both Statements I and II together are necessary to answer the question.**

1. **What day is 14th of a month?  
   I. 2nd last day of the month is Tuesday  
   II. 3rd Saturday of the month is seventeenth**
   1. (a)
   2. (b)
   3. (c)
   4. (d)
   5. (e)

**Answer:**

**(b) if the data in Statement II alone is sufficient to answer the question, while the data in Statement I alone is not sufficient to answer the question.**

1. **How is A related to B?  
   Statement I. B has only one brother  
   Statement II. A has only one sister**
   1. (a)
   2. (b)
   3. (c)
   4. (d)
   5. (e)

**Answer:**

**(d) if the data even in both Statements I and II together are not sufficient to answer the question.**

1. Consider the following phrase:  
   **Statement:** All A are B.  
   All B are D.  
   No D is C.  
   **Conclusions:**  
   **I.** All A are C.  
   **II.** Some A are C  
   **Choose the correct option given below:**
   1. only conclusion I is true.
   2. only conclusion II is true.
   3. either conclusion I or conclusion II is true
   4. neither conclusion I nor conclusion II is true
   5. both conclusions I and II are true.

**Answer:**

**(d)**

1. Consider the following phrase:  
   **Statement:** “The woods are lovely dark and deep, But I have promises to keep.”  
   **Assumptions:**  
   **I.** The woods are tempting to go to.  
   **II.** One must work on their promise instead of going to woods  
   Choose the correct option given below.
   1. If only assumption I is implicit
   2. If only assumption II is implicit.
   3. If either I or II is implicit.
   4. If neither I nor II is implicit.
   5. If both I and II are implicit.

**Answer:**

**(a)**

1. Consider the following phrase:  
   **Statement:** Strike when the iron is hot  
   **Assumptions:**  
   **I.** We should shape things in the right time.  
   **II.** It is hard to shape things when they have solidified.  
   Choose the correct option given below.
   1. If only assumption I is implicit
   2. If only assumption II is implicit.
   3. If either I or II is implicit.
   4. If neither I nor II is implicit.
   5. If both I and II are implicit.

**Answer:**

**(e)**

1. **Statements:**  
   I – Some S are L  
   II – Some C are P  
   III – All P is R  
   **Conclusions:**  
   I. Some P are L  
   II. Some C are R  
   **Choose the correct option given below:**
   1. only conclusion I is true.
   2. only conclusion II is true.
   3. either conclusion I or conclusion II is true
   4. neither conclusion I nor conclusion II is true
   5. both conclusions I and II are true.

**Answer:**

**(d) neither conclusion I nor conclusion II is true**

1. Find wrong number in series: 3, -15, 35, 63, 99, -143
   1. -15
   2. 35
   3. 63
   4. 99

**Answer:**

**63**

**Explanation:**

*Series: Sn = 1\*3 – 3\*5 + 5\*7 – …*

1. Find wrong number in series: 1, 8, 64, 125, 216
   1. 8
   2. 27
   3. 64
   4. 216

**Answer:**

**64**

**Explanation:**

*Tn = 13 + 23 + 33 + 43 + …..*

1. ***The average of 21 results is 20. Average of 1st 10 of them is 24 that of last 10 is 14. the result of 11’th is :****.*
   1. *42*
   2. *44*
   3. *46*
   4. *40*

***Answer:***

***40***

***Explanation:***

*11’th result = sum of 21 results – sum of 20 results  
= 21 x 20 – (24 x 10 + 14 x 10)  
= 420 – (240 + 140)  
= 420- 380 = 40*

1. ***A perfect number n is a number which is equal to the sum of its divisors. Which of the following is a perfect number?***
   1. *6*
   2. *9*
   3. *15*
   4. *21*

***Answer:***

***9***

***Explanation:***

*6 is divisible by 1, 2 and 3.  
And, 6 = 1 + 2 + 3.*

1. ***Three numbers are in the ratio of 2 : 3 : 4 and their L.C.M. is 240. Their H.C.F. is:***
   1. *40*
   2. *20*
   3. *30*
   4. *10*

***Answer:***

***20***

***Explanation:***

*Let the numbers be 2x, 3x and 4x  
LCM = 12x  
12x=240  
=> x=20  
H.C.F of 40, 60 and 80=20*

1. ***A stadium was to be built in 1500 days. The contractor employed 200 men, 300 women and 750 robotic machines. After 600 days, 75% of the work was still to be done. Fearing delay, the contractor removed all women and 500 robotic machines. Also, he employed some more men having the same efficiency as earlier employed men. This led to a speedup in work and the stadium got built 50 days in advance. Find the additional number of men employed if in one day, six men, ten women and fifteen robotic machines have same work output.***
   1. *1100*
   2. *1340*
   3. *1300*
   4. *1140*

***Answer:***

***1140***

***Explanation:***

*Let the total work be 4 units.  
=> Work done in first 600 days = 25% of 4 = 1 unit  
=> Work done in next 850 days = 75% of 4 = 3 unit  
Also, we are given that the daily work output of 6 men, 10 women and 15 robotic machines are same.  
=> 6 Em = 10 Ew = 15 Er  
=> Em : Ew : Er = 5 : 3 : 2, where ‘Em’ is the efficiency of 1 man, ‘Ew’ is the efficiency of 1 woman and ‘Er’ is the efficiency of 1 robotic machine.  
Therefore, ratio of efficiency of man, woman and robotic machine = 5:3:2.  
If ‘k’ is the constant of proportionality, Em = 5k, Ew = 3k and Er = 2k.  
Here, we need to apply the formula****=> (Mi Ei) D1 H1 / W1 =(Mj Ej) D2 H2 / W2****, where  
=> (Mi Ei) = (200 x 5k) + (300 x 3k) + (750 x 2k)  
=> (Mj Ej) = (200 x 5k) + (m x 5k) + (250 x 2k), where ‘m’ is the additional men employed  
D1 = 600 days  
D2 = 850 days  
H1 = H2 = Daily working hours  
W1 = 1 unit  
W2 = 3 units  
So, we have  
3400k x 600 / 1 = (1500 + 5m)k x 850 / 3  
=> 3400k x 1800 = (1500 + 5m)k x 850  
=> 1500 + 5m = 7200  
=> 5m = 5700  
=> m = 1140  
Therefore, additional men employed = 1140*

1. ***Two pipes A and B work alternatively with a third pipe C to fill a swimming pool. Working alone, A, B and C require 10, 20 and 15 hours respectively. Find the total time required to fill the pool.***
   1. *7 hours 14 minutes*
   2. *6 hours 54 minutes*
   3. *5 hours 14 minutes*
   4. *8 hours 54 minutes*

***Answer:***

***66 hours 54 minutes***

***Explanation:***

*Let the total work be 3 units and additional men employed after 18 days be ‘x’.  
=> Work done in first 18 days by 20 men working 8 hours a day = (1/3) x 3 = 1 unit  
=> Work done in last 10 days by (20 + x) men working 9 hours a day = (2/3) x 3 = 2 unit*

*Here, we need to apply the formula*

*M1 D1 H1 E1 / W1 = M2 D2 H2 E2 / W2,*

*where  
M1 = 20 men  
D1 = 18 days  
H1 = 8 hours/day  
W1 = 1 unit  
E1 = E2 = Efficiency of each man  
M2 = (20 + x) men  
D2 = 10 days  
H2 = 9 hours/day  
W2 = 2 unit*

*So, we have  
20 x 18 x 8 / 1 = (20 + x) x 10 x 9 / 2  
=> x + 20 = 64  
=> x = 44*

*Therefore, number of additional men employed = 44*

1. ***TwPeter and Beckon start to walk in the same direction together. If Peter’s speed is 5 km/h and Beckon’s speed is 6 km/h, find out the time duration after which they are 17 km apart.***
   1. *15*
   2. *17*
   3. *19*
   4. *20*

***Answer:***

***17***

***Explanation:***

*In 1 hour Peter covers 5 km and Beckon covers 6 km.  
So, they are 1 km apart after 1 hour.  
Therefore, they are 17 km apart after 17 hours.*

1. ***A train is running at a speed of 100Kmph. A car is running on road parallel to the train’s track at a speed of 20 Kmph in the same direction as of train. How much time will it take to cross the car if the length of the train is 100 meters?***
   1. *5 sec*
   2. *4 sec*
   3. *5.5 sec*
   4. *4.5 sec*

***Answer:***

***4.5 sec***

***Explanation:***

*Relative speed of train = 100-20 Kmph (say car is stopped)*

*T = D/V = 0.100/80 = .00125 hrs*

*=> 00125\*3600 = 4.5 secs*

1. ***Ram spends 20% of is salary on food, 15 % of remaining on cloths, and 400 on entertainment. If his salary is 10000, how much he spends on food?***
   1. *2000*
   2. *3000*
   3. *1500*
   4. *2500*

***Answer:***

***2000***

***Explanation:***

*10000\*20/100 = 2000*

1. ***The ratio 5:3 represents 16 litres of a mixture containing milk and water. If 4 litres of water is added and 4 litres of milk is extracted from the mixture, then the ratio of the mixture will be:***
   1. *7:3*
   2. *5:6*
   3. *2:3*
   4. *None of these*

***Answer:***

***None of these***

***Explanation:***

*Amount of Milk in 16 litres of mixture: (5/8) x 16 = 10 litres  
Amount of Water in 16 litres of mixture: 16-10 = 6 litres  
If we add 4 litres of water and extract 4 litres of milk,  
the total volume remains the same.  
Amount of Milk in 16 litres of new mixture: = 10 – 4 = 6 litres  
Amount of Water in 16 litres of new mixture: = 6 + 4 = 10 litres  
So, the new ratio becomes 3:5.*

1. ***A is as older than B as he is younger than C.If the sum of ages of B and C is 68 years. What is the present age of A?***
   1. *24 years*
   2. *34 years*
   3. *28 years*
   4. *32 years*

***Answer:***

***34 years***

***Explanation:***

*A – B = C – A  
=> 2A = B + C  
And also given that B + C = 68  
=> 2A = 68  
=> A = 34*

***Verbal Reasoning***

1. ***Ram is smarter than Mohan. Rakesh is smarter than Ramu and Mohini is smarter than Rakesh. Which of the following is a set(s) of additional information that can determine the smartest person?***
2. ***(I) Mohini is smarter than Ram and Mohan is smarter than Rakesh.***
3. ***(II) Mohan is smarter than Mohini.***
4. ***(III) Ram is smarter than Mohini.***
   1. *Only (II)*
   2. *Only (III)*
   3. *Either (I) or (II)*
   4. *None of these*

***Answer:***

***Either (I) or (II)***

***Explanation:***

*It is given that : Ram is smarter than Mohan, (i.e., Ram > Mohan). Rakesh is smarter than Ramu and Mohini is smarter than Rakesh (Mohni > Rakesh > Ramu).  
Our purpose is to add more possible set(s) of additional information that can determine the smartest person.*

*With the help of set (I), we can get****Mohini****as the smartest person.  
With the help of set (II), we can get****Ram****as the smartest person.  
But we can not conclude the smartest person with the set (III), because we have ambiguity (can be either Ram or Mohni).*

*So, only set (I) or (II) can decide the smartest person.  
Option (C) is correct.*

1. ***The long, anxious, and frustrating wait by people outside banks and ATMs across the country over the last five days is an inevitable consequence of the decision to demonetize notes of Rs.500 and Rs.1, 000. When 86 per cent of the value of notes in circulation turns suddenly invalid, as it did with Prime Minister Modi’s ‘surgical strike’ last week, a certain degree of disruption and pain is unavoidable. But the question is whether this chaos could have been anticipated and managed better than it has been.***

***Replacement of the demonetized notes is a time-consuming exercise that requires planning of the highest order. The experience of the last few days shows that preparation was lacking and the transition could have been handled much better.  
Thankfully, the Centre has woken up to ease the pressure on the system by increasing withdrawal limits, allowing for petroleum outlets and hospitals to accept the old series of notes until November 24 and pushing more cash through post offices.***

***Why do you think that the replacement of the demonetized notes is a time-consuming exercise?***

* 1. *It takes more than 50 days to replace demonized notes.*
  2. *Demonetization is a ‘futile exercise’ to target black money and fake currency*
  3. *The government was lazy enough to issue the decision of demonetization before.*
  4. *Replacement process requires planning of the highest order and careful implementation.*

***Answer:***

***Replacement process requires planning of the highest order and careful implementation.***

***Explanation:***

*According to the passage, the demonetization process requires careful thought process, well-chalked out implementation strategies and above all planning of the highest order from the policy makers as well as government.*

*So, option (D) is most appropriate choice.*

1. ***The long, anxious, and frustrating wait by people outside banks and ATMs across the country over the last five days is an inevitable consequence of the decision to demonetize notes of Rs.500 and Rs.1, 000. When 86 per cent of the value of notes in circulation turns suddenly invalid, as it did with Prime Minister Modi’s ‘surgical strike’ last week, a certain degree of disruption and pain is unavoidable. But the question is whether this chaos could have been anticipated and managed better than it has been.***

***Replacement of the demonetized notes is a time-consuming exercise that requires planning of the highest order. The experience of the last few days shows that preparation was lacking and the transition could have been handled much better.  
Thankfully, the Centre has woken up to ease the pressure on the system by increasing withdrawal limits, allowing for petroleum outlets and hospitals to accept the old series of notes until November 24 and pushing more cash through post offices.***

***Which of the following option is false ?***

* 1. *‘Unconcerned’ is similar in meaning to the word ‘anxious’ as used in the passage.*
  2. *‘Disorder’ is similar in meaning to the word ‘chaos’ as used in the passage.*
  3. *‘Hardship’ is opposite in meaning to the word ‘ease’ as used in the passage.*
  4. *‘Shift’ is opposite in meaning to the word ‘transition’as used in the passage.*

***Answer:***

***‘Unconcerned’ is similar in meaning to the word ‘anxious’ as used in the passage.***

***Explanation:***

*(A) ‘Unconcerned’ is opposite in meaning to the word ‘anxious’ as used in the passage.  
(B) ‘Disorder’ word implies that due to the demonetization, citizens all over the country were facing issues with the currency exchange.  
(C) ‘Hardship’ is the right choice.  
(D) ‘shift’ is the right choice.*

*Only option (A) is false.*

1. ***There was a man on the news last night who reckons we ——– visited by beings from other worlds.***
   1. *were*
   2. *have been*
   3. *had been*
   4. *had*

***Answer:***

***have been***

***Explanation:***

*Reckons is a verb, which means ‘believe’ or ‘think’. The man on the news (last night) believes that we have been visited by beings from other worlds. So, only option (B) is suitable.*

1. ***Choose the most closely related word for ‘Paradox’***
   1. *Certitude*
   2. *Enigma*
   3. *Explanation*
   4. *Derivative*

***Answer:***

***Enigma***

***Explanation:***

*‘Paradox’ is a noun, which can be related as a Puzzle. In given options, Enigma (a puzzle) is the only closely related word to Paradox.  
So, option (B) is correct.*

1. ***“From where are they bringing their books=> \_\_\_\_\_\_\_\_\_ bringing \_\_\_\_\_\_\_\_\_ books from \_\_\_\_\_\_\_\_\_.” The words that best fill the blanks in the above sentence are***
   1. *Their, they’re, there*
   2. *They’re, their, there*
   3. *There, their, they’re*
   4. *They’re, there, there*

***Answer:***

***They're, their, there***

***Explanation:***

*“From where are they bringing their books=> Who bringing Whose books from Where.” Who – A group as subject = They are Whose – of that group = their Where – from a place = there “From where are they bringing their books=> They are bringing their books from there.”*

*So, option (B) is the correct choice.*

1. ***A \_\_\_\_\_\_\_\_\_\_ investigation can sometimes yield new facts, but typically organized once are more successful.***
   1. *Meandering*
   2. *Timely*
   3. *Consistent*
   4. *Systematic*

***Answer:***

***Meandering***

***Explanation:***

*Meandering (as adjective) = proceeding in a convoluted or****undirected fashion****.*

*Timely (as adjective) = done or occurring at a favourable or useful time; opportune.  
Consistent (as adjective) = acting or done in the same way over time, especially so as to be fair or accurate.  
Systematic (as adjective) = done or acting according to a fixed plan or system; methodical.*

*Therefore,****meandering****is correct choice, all other options are similar to the word organized.*

1. ***Select the correct SYNONYM for:  
   Together***
   1. *Common*
   2. *Obstinate*
   3. *Same*
   4. *Jointly*

***Answer:***

***D***

1. ***Select the correct SYNONYM for:  
   Almost***
   1. *Crafty*
   2. *Nearly*
   3. *Relevant*
   4. *Summary*

***Answer:***

***B***

1. ***Select the correct ANTONYM for:  
   Arise***
   1. *Appear*
   2. *Dive*
   3. *Occur*
   4. *Emerge*

***Answer:***

***B***

***Logical Reasoning***

1. ***Find wrong number in series:  
   8, 12, 16, 27, 40.5, 60.75***
   1. *12*
   2. *16*
   3. *40.5*
   4. *60.75*

***Answer:***

***B***

***Explanation:***

*(8 × 3) ÷ 2 = 12  
(12 × 3) ÷ 2 = 18  
(18 × 3) ÷ 2 = 27  
(27 × 3) ÷ 2 = 40.5  
(40.5 × 3) ÷ 2 = 60.75*

1. ***Find wrong number in series:  
   15, 25, 30, 51, 85, 90, 115***
   1. *30*
   2. *51*
   3. *85*
   4. *115*

***Answer:***

***51***

***Explanation:***

*All except 51 are multiple of 5*

***Directions to solve Question 3 and 4: Each of the questions given below consists of a statement and/or a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statement(s) is/are sufficient to answer the given question.  
Read both the statements and Give answer  
(a) if the data in Statement I alone is sufficient to answer the question, while the data in Statement II alone is not sufficient to answer the question.  
(b) if the data in Statement II alone is sufficient to answer the question, while the data in Statement I alone is not sufficient to answer the question.  
(c) if the data in each Statement I and Statement II alone is sufficient to answer the question.  
(d) if the data even in both Statements I and II together are not sufficient to answer the question.  
(e) if the data in both Statements I and II together are necessary to answer the question.***

1. ***Who is lightest among A, B, C, D?  
   I. A is heavier than B, and B is heavier than D  
   II. B is lighter than C***
   1. *(a)*
   2. *(b)*
   3. *(c)*
   4. *(d)*
   5. *(e)*

***Answer:***

***(e) if the data in both Statements I and II together are necessary to answer the question.***

1. ***How is A related to B?  
   Statement I. B is the brother of A  
   Statement II. C is the wife of A***
   1. *(a)*
   2. *(b)*
   3. *(c)*
   4. *(d)*
   5. *(e)*

***Answer:***

***(e) if the data in both Statements I and II together are necessary to answer the question.***

1. *Consider the following phrase:****Statement:****All C are J.  
   All J are B.  
   No B is R.****Conclusions:******I.****All B are C.****II.****Some J are C****Choose the correct option given below:***
   1. *only conclusion I is true.*
   2. *only conclusion II is true.*
   3. *either conclusion I or conclusion II is true*
   4. *neither conclusion I nor conclusion II is true*
   5. *both conclusions I and II are true.*

***Answer:***

***(b) only conclusion II is true.***

***Explanation:***

*All B are not C*

1. *Consider the following phrase:****Statement:****A good man is hard to find****Assumptions:******I.****There is very less chance to find a man with good qualities nowadays****II.****Today’s men are mostly sleeves snakes.  
   Choose the correct option given below.*
   1. *If only assumption I is implicit*
   2. *If only assumption II is implicit.*
   3. *If either I or II is implicit.*
   4. *If neither I nor II is implicit.*
   5. *If both I and II are implicit.*

***Answer:***

***(a)***

1. *Consider the following phrase:****Statement:****A little knowledge is a dangerous thing****Assumptions:******I.****Small amount of information can mislead people****II.****People often make more mistakes if they have little knowledge about the topic  
   Choose the correct option given below.*
   1. *If only assumption I is implicit*
   2. *If only assumption II is implicit.*
   3. *If either I or II is implicit.*
   4. *If neither I nor II is implicit.*
   5. *If both I and II are implicit.*

***Answer:***

***(e)***

1. ***Statements:*** *I – Some S are L  
   II – Some C are P  
   III – All P is R****Conclusions:*** *I. Some P are L  
   II. Some C are R****Choose the correct option given below:***
   1. *only conclusion I is true.*
   2. *only conclusion II is true.*
   3. *either conclusion I or conclusion II is true*
   4. *neither conclusion I nor conclusion II is true*
   5. *both conclusions I and II are true.*

***Answer:***

***(d) neither conclusion I nor conclusion II is true***

1. *Find wrong number in series: 3, 15, -35, 63, -99*
   1. *3*
   2. *15*
   3. *-35*
   4. *63*

***Answer:***

***3***

***Explanation:***

*Series: Sn = – 1\*3 + 3\*5 – 5\*7 + …*

1. *Find wrong number in series: 1, 4, 16, 25, 36*
   1. *4*
   2. *16*
   3. *25*
   4. *36*

***Answer:***

***16***

***Explanation:***

*Tn = 12 + 22 + 32 + 42 + …..*