TCS Placement Questions, Answers With Explanations

Aptitude

1.It was calculated that 75 men could complete a piece of work in 20 days. When work was
scheduled to commence, it was found necessary to send 25 men to another project. How
much longer will it take to complete the work?
Answer:
30 days.
Explanation:
Before:
One day work = 1 / 20
One man's one day work = 1 / (20 * 75)
Now:
No. Of workers = 50
One day work = 50 * 1 / (20 * 75)
The total no. of days required to complete the work = (75 * 20) / 50 = 30
2. A student divided a number by 2/3 when he required to multiply by 3/2. Calculate the
percentage of error in his result.
Answer:
0 %
Explanation:
Since 3x / 2 = x / (2 / 3)
3. A dishonest shopkeeper professes to sell pulses at the cost price, but he uses a false weight
of 950gm. for a kg. His gain is …%.
Answer:
5.3 %
Explanation:
He sells 950 grams of pulses and gains 50 grams.
If he sells 100 grams of pulses then he will gain (50 / 950) *100 = 5.26

4. A software engineer has the capability of thinking 100 lines of code in five minutes and

can type 100 lines of code in 10 minutes. He takes a break for five minutes after every ten

minutes. How many lines of codes will he complete typing after an hour?

Answer:

250 lines of codes

5. A man was engaged on a job for 30 days on the condition that he would get a wage of Rs.

10 for the day he works, but he have to pay a fine of Rs. 2 for each day of his absence. If he

gets Rs. 216 at the end, he was absent for work for ... days.

Answer:

7 days

Explanation:

The equation portraying the given problem is:

$10 * x – 2 * (30 – x) = 216$ where x is the number of working days.

Solving this we get x = 23

Number of days he was absent was 7 (30-23) days.

6. A contractor agreeing to finish a work in 150 days, employed 75 men each working 8

hours daily. After 90 days, only 2/7 of the work was completed. Increasing the number of

men by _____ each working now for 10 hours daily, the work can be completed in time.

Answer:

150 men.

Explanation:

One day's work = 2 / (7 * 90)

One hour's work = 2 / (7 * 90 * 8)

One man's work = 2 / (7 * 90 * 8 * 75)

The remaining work (5/7) has to be completed within 60 days, because the total

number of days allotted for the project is 150 days.

So we get the equation

$(2 * 10 * x * 60) / (7 * 90 * 8 * 75) = 5/7$ where x is the number of men

working after the 90th day.

We get x = 225

Since we have 75 men already, it is enough to add only 150 men.

7. what is a percent of b divided by b percent of a?

(a) a (b) b (c) 1 (d) 10 (d) 100

Answer:

(c) 1

Explanation:

a percent of b : (a/100) * b

b percent of a : (b/100) * a

a percent of b divided by b percent of a : ((a / 100)*b) / (b/100) * a)) = 1

8. A man bought a horse and a cart. If he sold the horse at 10 % loss and the cart at 20 %

gain, he would not lose anything; but if he sold the horse at 5% loss and the cart at 5% gain,

he would lose Rs. 10 in the bargain. The amount paid by him was Rs._____ for the horse

and Rs._____ for the cart.

Answer:

Cost price of horse = Rs. 400 & the cost price of cart = 200.

Explanation:-

Let x be the cost price of the horse and y be the cost price of the cart.

In the first sale there is no loss or profit. (i.e.) The loss obtained is equal to the gain.

Therefore (10/100) * x = (20/100) * y

X = 2 * y -----------------(1)

In the second sale, he lost Rs. 10. (i.e.) The loss is greater than the profit by Rs. 10.

Therefore (5 / 100) * x = (5 / 100) * y + 10 -------(2)

Substituting (1) in (2) we get

(10 / 100) * y = (5 / 100) * y + 10

(5 / 100) * y = 10

y = 200

From (1) 2 * 200 = x = 400

9. A tennis marker is trying to put together a team of four players for a tennis tournament out

of seven available. males - a, b and c; females – m, n, o and p. All players are of equal ability

and there must be at least two males in the team. For a team of four, all players must be able

to play with each other under the following restrictions:

b should not play with m,

c should not play with p, and

a should not play with o

Which of the following statements must be false?

1. b and p cannot be selected together

2. c and o cannot be selected together

3. c and n cannot be selected together.

Answer:

3.

Explanation:

Since inclusion of any male player will reject a female from the team. Since there should be four member in the team and only three males are available, the girl, n should included in the team always irrespective of others selection.

10. Five farmers have 7, 9, 11, 13 & 14 apple trees, respectively in their orchards. Last year,each of them discovered that every tree in their own orchard bore exactly the same number of apples. Further, if the third farmer gives one apple to the first, and the fifth gives

three to each of the second and the fourth, they would all have exactly the same number of

apples. What were the yields per tree in the orchards of the third and fourth farmers?

ANSWER:

5

Reasoning

1. Two bowls are taken, one contains water and another contains tea.one spoon of water is added to second bowl and mixed well, and a spoon of mixture is taken from second bowl and added to the second bowl. Which statement will hold good

for the above?

(Ans: second liquid in first bowl is smaller than the first mixture in second bowl)

2. Which is the smallest no divides 2880 and gives a perfect square?

a.1 b.2 c.5 d.6

Ans: c

3. Form 8 digit numbers from by using 1, 2,3,4,5 with repetition is allowed and must be divisible by4?

a.31250 b.97656 c.78125 d.97657

Ans: c

4. One problem on (a3-b3)/(a2+ab+b2)

Ans: 'a-b'

5. Rearrange and categorize the word 'RAPETEKA'?

Ans: bird

6. In school there are some bicycles and 4wheeler wagons.one Tuesday there are 190 wheels in the campus. How many bicycles are there?

Ans: 15

7. Key words in question (Fibonacci series, infinite series, in the middle of the question one number series is there….I got the series 3 12 7 26b 15?

Ans:54

(Logic: 3*2+1=7 12*2+2=26

7*2+1=15 26*2+2=54)

8. A father has 7 penny's with him and 1 water melon is for 1p, 2chickoos for 1p, 3 grapes foe 1p.he has three sons. How can he share the fruits equally?

Ans: 1 watermelon,2chickoos,1grape

9. A lies on mon, tues, wed and speak truths on other days, B lies on thur, fri, sat and speaks truths on other days.. one day a said I lied today and B said I too lied today. What is the day?

10. Man, Bear, North, South, walks.

Ans: White

11. (1/2) of a number is 3 times more than the (1/6) of the same number?

Ans: 9

12. There are two pipes A and B. If A filled 10 liters in hour B can fills 20 liters in same time. Likewise B can fill 10, 20, 40, 80,160….if B filled in (1/16) th of a tank in 3 hours, how much time will it take to fill completely?

Ans:7 hours

13. KEYWORDS:T.Nagar,Chennai,1-100,prime numbers b/n 140-180,How many 2's are there?

Ans: 20 (Not only 2's ,1's,3's,4's,5's,6's,7's,8's,9's,0's also 20)

14. One question has last part like difference between two terms is 9 and product of two numbers is 14, what is the squares of sum of numbers?

Ans:109

15. A man is standing before a painting of a man and he says I have no bro and sis and his father is my father's son?

Ans: His son

16. What is the value of $[(3x+8Y)/(x-2Y)]$; if $x/2y=2$?

Ans:10 {the numerical may change)

17. A pizza shop made pizzas

with to flavours.in home there are 'N' different flavors, in that 'M' flavors are taken to made pizza.in how many ways they can arrange?

(Logic: NcM)

18. One grandfather has three grandchildren, two of their age difference is 3, eldest child age is 3 times youngest child's age and eldest child's age is two times of sum of other two children. What is the age of eldest child?

Ans:15

19. In a market 4 man are standing .the average age of the four before 4years is 45,aftyer some days one man is added and his age is 49.what is the average weight of all?

Ans: 49

20. KEYWORDS: one organization ,material labor and maintenance are in the ratio of 4:6:7,the material cost is:100,what is the total cost?

Ans: 425

21. KEYWORDS: density, reluctance, sensitivity, voltage ,current, what is the resistance Formula is "R=V/I"

22. KEYWORDS: Sports readers,10 tables,4chairs per table, each table has Different number of people then how many tables will left without at least one person?

Ans : 6

23. KEYWORDS: Die, card, coin, b/n 2 to 12

Ans: All are equal

24. In a school for a student out of a 100 he got 74 of average for 7 subjects and he got 79 marks in 8th subject. what is the average of all the subjects?
Ans: 74.625

25. In a question ,last part has ,the ages of two people has the ratio of 6:6 and by adding the numbers we get 44,after how many years the ratio would be 8:7?
Ans: 8

26. Two years before Paul's age is 2times the Alice age and the present age of Paul is 6times the Alice. what is the presents Paul's age???(3years) "u try to solve this question once" https://www.freshersnow.com/placement-papers-download/

27. One train travels 200m from A to B with 70 km/ph. and returns to A with 80kmph, what is the average of their speed?

English

1.   Fill in the blank:
Since one cannot read every book, one should be content with making a _____ selection.
A.   normal
B.   standard
C.   moderate
D.   judicious
Answer: D.

2.   Synonym: -
ADMONITION
A.   Warning
B.   Pardon
C.   Amazement
D.   Award
Answer: A.

3.   Antonym: -
INTRACTABLE

A. Difficult
B. Manageable
C. Intricate
D. Overwhelmed
Answer: B.

4. One-word substitution:
Science of diseases
A. Philology
B. Pathology
C. Psychology
D. Virology
Answer: B.

5. Analogy:
FLEXIBLE: RIGID: CONFIDENCE : ?
A. Diffidence
B. Indifference
C. Cowardice
D. Scare
Answer: A.

6. Direct/Indirect speech: -
I told him that he was not working hard.
A. I said to him, "You are not working hard."
B. I told to him, "You are not working hard."
C. I said, "You are not working hard."
D. I said to him, "He is not working hard."
Answer: A.

7. Direct/Indirect speech:
He said to his father, "Please increase my pocket-money."
A. He told his father, "Please increase the pocket-money"
B. He pleaded his father to please increase my pocket money.

C.   He requested his father to increase his pocket-money.
D.   He asked his father to increase his pocket-money.
Answer: C.

8.   Parajumble:
1) His political career came to an abrupt end with China's military operation.
2) He attracted as as repelled.
3) He was responsible for the debacle.
4) A man of paradoxes, Menon remained an enigma.
A.   4312
B.   1342
C.   4213
D.   4132
Explanation:
'A man of paradoxes' is logically continued by 'repelled ' and 'attracted'. Subsequently, 'the' debacle refers to China's flopped military operation and hence choice C.

9.   Replace the phrase printed in bold type to make the grammatically correct: -
The man to who I sold my house was a cheat.
A.   to whom I sell
B.   to who I sell
C.   who was sold to
D.   to whom I sold
E.   No correction required
Answer: D.

10.   Active/Passive voice:
They will inform the police.
A.   The police will be informed by them.
B.   The police will inform them.
C.   The police are informed by them.
D.   Informed will be the police by them.

Answer: A.