

Ericsson Model Question Paper



1. How much time will the leak take to empty the full cistern? I. The cistern is normally filled in 9 hours. II. It takes one hour more than the usual time to fill the cistern because of a leak in the bottom.

- A. I alone sufficient while II alone not sufficient to answer
- B. II alone sufficient while I alone not sufficient to answer
- C. Either I or II alone sufficient to answer
- D. Both I and II are necessary to answer

Answer: D

2. $p > 0 > q$ A: $p + q$ B: pq

- A. The quantity in Column A is greater.
- B. The quantity in Column B is greater.
- C. The quantities are equal.
- D. The relationship cannot be determined from the information given.

Answer: D

3. Two towns are connected by railway. Can you find the distance between them?

I. The speed of the mail train is 12 km/hr more than that of an express train.
II. A mail train takes 40 minutes less than an express train to cover the distance.
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- A. I alone sufficient while II alone not sufficient to answer
- B. II alone sufficient while I alone not sufficient to answer
- C. Either I or II alone sufficient to answer
- D. Both I and II are not sufficient to answer

Answer: D

4. $y^2 + z^2 = 34$ and $yz = 15$ A: $y^2 + 2yz + z^2$ B: $(y + z)^2$

- A. Quantity B is greater
- B. Relationship Indeterminate
- C. Quantity A is greater
- D. Quantity A equals Quantity B

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Answer: D

5. What is the number?

I. The sum of the two digits is 8. The ratio of the two digits is 1 : 3.

II. The product of the two digit of a number is 12. The quotient of two digits is 3.

A.I alone sufficient while II alone not sufficient to answer

B.II alone sufficient while I alone not sufficient to answer

C.Either I or II alone sufficient to answer

D.Both I and II are not sufficient to answer

Answer: C

6. The simple interest on a sum of money is Rs. 50. What is the sum? I. The interest rate is 10% p.a. II. The sum earned simple interest in 10 years.

A.I alone sufficient while II alone not sufficient to answer

B.II alone sufficient while I alone not sufficient to answer

C.Either I or II alone sufficient to answer

D.Both I and II are necessary to answer

Answer: D

7. What is the sum which earned interest? I. The total simple interest was Rs. 7000 after 7 years. II. The total of sum and simple interest was double of the sum after 5 years.

A.I alone sufficient while II alone not sufficient to answer

B.II alone sufficient while I alone not sufficient to answer

C.Both I and II are not sufficient to answer

D.Both I and II are necessary to answer

Answer: D

8. Ravi, Gagan and Nitin are running a business firm in partnership. What is Gagan's share in the profit earned by them? I. Ravi, Gagan and Nitin invested the amounts in the ratio of 2 : 4 : 7. II. Nitin's share in the profit is Rs. 8750.

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- A. I alone sufficient while II alone not sufficient to answer
- B. II alone sufficient while I alone not sufficient to answer
- C. Both I and II are not sufficient to answer
- D. Both I and II are necessary to answer

Answer: D

9. A: The average (arithmetic mean) of x and y B: The average (arithmetic mean) of $x - 1$ and $y + 1$

- A. The quantity in Column A is greater.
- B. The quantity in Column B is greater.
- C. The quantities are equal.
- D. The relationship cannot be determined from the information given

Answer: C

10. In a particular jellybean jar, the number of red jellybeans exceeds the number of white ones by a ratio of 3:2. If two red jellybeans were removed, the ratio of red to white jellybeans would be 1:1. A: The number of white jellybeans in the jar B: 4

- A. The quantity in Column A is greater.
- B. The quantity in Column B is greater.
- C. The quantities are equal.
- D. The relationship cannot be determined from the information given.

Answer: C

11. The average temperature on Wednesday, Thursday and Friday was 250. The average temperature on Thursday, Friday and Saturday was 240. If the temperature on Saturday was 270, what was the temperature on Wednesday ?

A.24 B.21 C.27 D.30

Answer: D

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12. Three men (Tom, Peter and Jack) and three women (Eliza, Anne and Karen) are spending a few months at a hillside. They are to stay in a row of nine cottages, each one living in his or her own cottage. There are no others staying in the same row of houses.

1. Anne, Tom and Jack do not want to stay in any cottage, which is at the end of the row.
2. Eliza and Anne are unwilling to stay besides any occupied cottage..
3. Karen is next to Peter and Jack.
4. Between Anne and Jack's cottage there is just one vacant house.
5. None of the girls occupy adjacent cottages.
6. The house occupied by Tom is next to an end cottage.

Which of the above statements can be said to have been derived from two other statements ?

- A. Statement 1 B. Statement 2 C. Statement 3 D. Statement 5

Answer: D

13. How many of them occupy cottages next to a vacant cottage ?

- A. 2 B. 3 C. 4 D. 5

Answer: C

14. Which among these statement(s) are true ?

1. Anne is between Eliza and Jack.
2. At the most four persons can have occupied cottages on either side of them. .
3. Tom stays besides Peter.

- A. I only B. II only C. I and III only D. II and III only

Answer: C

15. There are three on-off switches on a control panel A, B, and C. They have to be changed from an initial setting to a second setting according to the following conditions :
In case only switch A is the switch on in the initial setting , then turn on switch B. In case switches A and B are the only switches on in the initial setting, then turn on switch C. In

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case all the three switches are on initially setting, then turn off the switch C. For any other initial setting, turn on all switches that are off and turn off all switches, if any, that are on. In case in the initial setting is the switches A and B are on and the switch C is off, then what could be the second setting ?

A.A on, B on, C on. B.A on, B off, C on. C.A on, B off, C off. D.A off, B on, C off.

Answer: A

16. In case all the three switches are on in the second setting, which among the following could have been the initial setting ?

A.A on, B on, C on. B.A on, B on, C off. C.A on, B off, C on. D.A on, B off, C off

Answer: B

17. In case switch A is off in the second setting, which among the following could have been the initial setting ?

A.A on, B on, C on. B.A on, B on, C off. C.A on, B off, C on. D.A on, B off, C off

Answer: C

18. In case only switch B is on in the second setting, which among the following could have been the initial setting ?

A.A on, B on, C on. B.A on, B off, C on. C.A off, B on, C off. D.A off, B off, C on.

Answer: B

19. In case switch B is the only switch on in the initial setting, what must be the second setting ?

A.A on, B on, C on. B.A on, B on, C off. C.A on, B off, C on. D.A off, B off, C on

Answer: C

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20. Which among the following initial settings leads to a second setting, where only one switch is off ?

A.A on, B on, C off. B.A on, B off, C on. C.A off, B on, C on. D.A off, B on, C off

Answer: D

21. NUMBER OF BOYS OF STANDARD XI PARTICIPATING IN DIFFERENT GAMES
(table IMAGE)

Girls playing which of the following games need to be combined to yield a ratio of boys to girls of 4 : 1 if all boys playing chess and badminton are combined?

A.Table Tennis & Hockey B.Badminton & Table Tennis C.Chess & Hockey D.Hockey & Foot ball

Answer: D

Explanation:

Number of boys playing chess and badminton = $52 + 32 = 84$ boys Since girls are 25% of boys, To yield a ratio of 4:1, number of girls should be 21 Girls playing Hockey and Football = $\frac{1}{4} \times 32 + \frac{1}{4} \times 52 = 8 + 13 = 21$ girls Girls of hockey + football have to be combined to give a ratio of 4 : 1 if boys playing chess & badminton are combined.

22. If for social work every boy of class XI D and XI C is paired with a girl of the same class, what percentage of boys of these two classes cannot participate in social work ?

A.88 B.66 C.62 D.75

Answer: D

Explanation:

Since girls are only 25% of the boys only 25% of the boys can participate and 75% of the boys cannot participate in social work.

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23. If boys of class XI E participating in chess together with girls of class XI B and class XI C participating in Table Tennis & hockey respectively are selected for a course at the college of sports, what percentage of the students will get this advantage approximately ?

A.4.38 B.3.51 C.10.52 D.13.5

Answer: B

Explanation:

Boys of XI E playing chess = 4 Girls of XI B playing Table Tennis = 4 Girls of XI C playing Hockey = 2 Number of student selected = $4 + 4 + 2 = 10$ Number of students in the school = boys + girls = $228 + 57 = 285$ Percentage = $\frac{10}{285} \times 100 = 3.51$.

24. What should be the total number of students in the school if all the boys of class XI A together with all the girls of class XI B and class XI C were to be equal to 25% of the total number of students ?

A.272 B.560 C.656 D.340

Answer: A

Explanation:

Boys of XI A = 44 Boys of XI B = 48 Girls of XI B = 12 Boys of XI C = 48 Girls of XI C = 12 Total 68 We are given that $(44 + 12 + 12) = 68$ is 25% of total students in the school. Total students = $68/0.25 = 272$.

25. Boys of which of the following classes need to be combined to equal four times the number of girls in class XI B and class XI C.

A.XID & XIE B.XIA & XIB C.XI A & XI D D.None of these

Answer: D

Explanation:

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Number of girls in XI B + XI C = 24 4 times = 96 Boys of XI B and XI E have to be combined.

26. All the boys of class XI D passed at the annual examination but a few girls failed. If all the boys and girls who passed XI D and entered XII D are in the ratio of 5 : 1, how many girls failed in XI D ?

A.8 B.5 C.2 D.1

Answer: C

Explanation:

Before solving these questions note that the table is given for the number of boys and not for the total number of students. The number of boys

in XI D are 40 Girls in XI D = $40 \times \frac{1}{4} = 10$ Number of boys who passed XI D and entered XII D = 40 Ratio in XII D = 5 : 1 In XII D Boys > 5 ;

Girls > 1 or Boys 40; Girls 8 Girls in XI D = 10 Girls in XII D = 8 $10 - 8 = 2$ girls failed.

27. EXPENSES OF FreshersWorld (pie_graph Image)

If the turnover of Freshersworld was Rs. 2 lakhs this year and the salaries to be paid were Rs. 95000, what is the loss this year as a percentage of turnover?

A.23.5% B.19.03% C.47.5% D.26.7%

Answer: A

Explanation:

From the pie chart we can say that $X = 24\%$ $X = \frac{24}{100} \times 2 \times 105 = 48000$

Salaries = Rs. 95000 Loss = $(95000 - 48000) / (200000) \times 100 = 23.5\%$.

28. If Freshersshine has to pay total salaries of Rs. 1.32 lacs, what should be the turnover of Freshersworld so that there is no profit no loss ?

A.Rs. 6 lacs B.Rs. 5 lacs C.Rs. 5.5 lacs D.None of these

Answer: C

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Explanation:

$0.24x = 132000$, where x is total turnover $x = \text{Rs. } 5.5 \text{ lacs}$.

29. If total salaries are Rs. 1,20,000 per year and 12% profit on turnover is made, what will be the printing charges that year ?

A.Rs. 10 lacs B.Rs. 1.51acs C.Rs. 1 lac D.Rs. 75000

Answer: B

Explanation:

$0.24x = 120000 + 0.12x$, where x is total turnover $x = 106$ Printing charges = $0.15x = 0.15 \times 106 = 1.5 \text{ lac}$

30. If Freshershine had spent Rs. 40000 more for Advertising and Promotion than for printing, how much more would they have spent for material preparation than for faculty ?

A.Rs. 2500 B.Rs. 6000 C.Rs. 7500 D.Rs. 5000

Answer: D

Explanation:

$0.31x - 0.15x = 40000$ $x = 2.5 \times 10^5$ More amount spent on material preparation than faculty = $0.1x - 0.08x = 0.02 \times 2.5 \times 10^5 = \text{Rs. } 5000$.