

<u>Puzzle Practise – 1</u>

Comprehension:

Refer to the data below and answer the questions that follow.

NET 2017 was an Engineering entrance test conducted by National Institute of Engineering. The exam consisted of three subjects: Maths, Physics and Chemistry. All questions in NET 2017 were either of 2 marks or 3 marks. The following table gives information about the percent-wise distribution of the 2 marks and 3 marks questions in the three subjects.

	Maths	Physics	Chemistry
2-marks	30%	60%	10%
3-marks	40%	25%	35%

The pie-chart given below provides subject-wise distribution of the marks scored by Krishnan and Murali, two students who appeared for NET 2017.



There was no negative marking for incorrect answers or unattempted questions. A total of 300 questions were asked in NET 2017, out of which the number of questions on Maths was 100. It is known that Krishnan and Murali scored 400 and 320 marks respectively in NET 2017.

Q1 What is the minimum number of 3-mark questions that Murali could have attempted in NET 2017?

- A. 8
- B. 7
- C. 6
- D. None of these

Q.2 Ramanathan, a third student also appeared for NET 2017. What could be the maximum possible marks that he could have scored?

- A. 800
- B. 700
- C. 1000
- D. 1200

Q.3 If Krishnan attempted fewest possible questions in Maths in NET 2017, what was the

ratio of the 2-mark and 3-mark questions attempted by him in Maths?

- A. 2:1
- B. 1:2
- C. 1:1
- D. Cannot be determined

Q.4 Which of the following can be the number of 2-mark questions that Krishnan could have got correct in Chemistry ?

- A. 19
- B. 18
- C. 17
- D. 16

Comprehension:

Refer to the data below and answer the questions that follow.

Adhara, Bithi, Chhaya, Dhanavi, Esther, and Fathima are the interviewers in a process that awards funding for new initiatives. Every interviewer individually interviews each of the candidates individually and awards a token only if she recommends funding. A token has a face value of 2, 3, 5, 7, 11, or 13. Each interviewer awards tokens of a single face value only.

Once all six interviews are over for a candidate, the candidate receives funding that is Rs.1000 times the product of the face values of all the tokens. For example, if a candidate has tokens with face values 2, 5, and 7, then they get a funding of Rs.1000 × $(2 \times 5 \times 7) = Rs.70,000$.

Pragya, Qahira, Rasheeda, Smera, and Tantra were five candidates who received funding. The funds they received, in descending order, were Rs.390,000, Rs.210,000, Rs.165,000, Rs.77,000, and Rs.66,000.

The following additional facts are known:

- 1. Fathima awarded tokens to everyone except Qahira, while Adhara awarded tokens to no one except Pragnyaa.
- 2. Rashida received the highest number of tokens that anyone received, but she did not receive one from Esther.
- 3. Bithi awarded a token to Smera but not to Qahira, while Dhanavi awarded a token to Qahira but not to Smera.

Q.5 How many tokens did Qahira receive?



Q.6 Who among the following definitely received a token from Bithi but not from Dhanavi ?

- A. Qahira
- B. Pragnyaa
- C. Rasheeda
- D. Tantra

Q.7 How many tokens did Chhaya award?

Q.8 How many tokens did Smera receive?

Q.9Which of the following could be the amount of funding that Tantra received?

- (a) Rs. 66,000
- (b) Rs. 165,000
 - A. Only (b)
 - B. Only (a)
 - C. Both (a) and (b)
 - D. Neither (a) nor (b)

Comprehension:

Refer to the data below and answer the questions that follow.

A few salesmen are employed to sell a product called TRICCEK among households in various housing complexes. On each day, a salesman is assigned to visit one housing complex. Once a salesman enters a housing complex, he can meet any number of households in the time available. However, if a household makes a complaint against the salesman, then he must leave the housing complex immediately and cannot meet any other household on that day. A household may buy any number of TRICCEK items or may not buy any item. The salesman needs to record the total number of TRICCEK items sold as well as the number of households met in each day. The success rate of a salesman for a day is defined as the ratio of the number of items sold to the number of households met on that day. Some details about the performances of three salesmen - Tohri, Hokli and Lahur, on two particular days are given below.

1. Over the two days, all three of them met the same total number of households, and each of them sold a total of 100 items.

2. On both days, Lahur met the same number of households and sold the same number of items.

3. Hokli could not sell any item on the second day because the first household he met on that day complained against him.

4. Tohri met 30 more households on the second day than on the first day.

5. Tohri's success rate was twice that of Lahur's on the first day, and it was 75% of Lahur's on the second day.

Q10. How many households did Lahur meet on the second day?

- 1. between 30 and 35
- 2. more than 35
- 3. between 21 and 29
- 4. 20 or less

Q11. How many households did Tohri meet on the first day?

- 1. 10 or less
- 2. between 21 and 40
- 3. more than 40
- 4. between 11 and 20

Q12. Which of the following statements is FALSE?

1. Among the three, Lahur had the lowest success rate on the first day.

2. Among the three, Tohri had the highest success rate on the first day.

3. Tohri had a higher success rate on the first day compared to the second day.

4. Among the three, Tohri had the highest success rate on the second day.

Q13. How many TRICCEK items were sold by Tohri on the first day? Case Sensitivity: No Answer Type: Equal Possible Answer: 40