
Mathematical Reasoning and Aptitude

Paper 1
Induction 2024



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25 YEARS OF
EXCELLENCE



UGC NET Paper 1 Sections

	No. of Questions	Marks
Teaching Aptitude	5	10
Research Aptitude	5	10
Reading Comprehension	5	10
Communication	5	10
Mathematical Reasoning and Aptitude	5	10
Logical Reasoning	5	10
Data Interpretation	5	10
Information and Communication Technology (ICT)	5	10
People, Development and Environment	5	10
Higher Education System	5	10



Anxiety

Feeling inferior

Not feeling dedicated or motivated

Irregular study schedule

Negative self talk

Relying more on memorising solution

I cant do math,
I'm going to avoid it.



Acknowledging the problem

Meditation / Breathing Exercise

Practice will make you perfect

Ask questions and get your queries resolved

Patience is the key

Don't worry.
Let's do it together



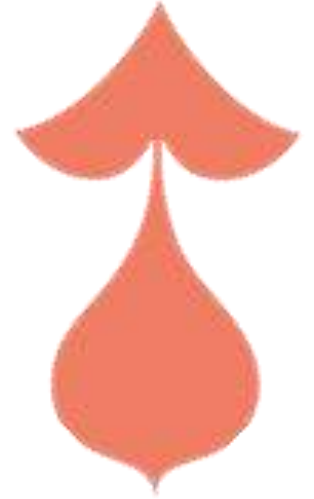
Mathematical Reasoning & Data Interpretation

- ➔ Hcf and Lcm
- ➔ Percentage
- ➔ Profit and Loss
- ➔ Average
- ➔ Ratio and Proportion
- ➔ Time, Distance and Speed
- ➔ Interest
- ➔ Calendar
- ➔ Clock
- ➔ Time and Work
- ➔ Data Interpretation (Bar-chart, Pie-chart, Table-chart and Line-chart)



Aptitude

- ➔ Numerical and Alphabetical Series
- ➔ Direction
- ➔ Blood Relation
- ➔ Seating Arrangement
- ➔ Coding And Decoding
- ➔ Ranking

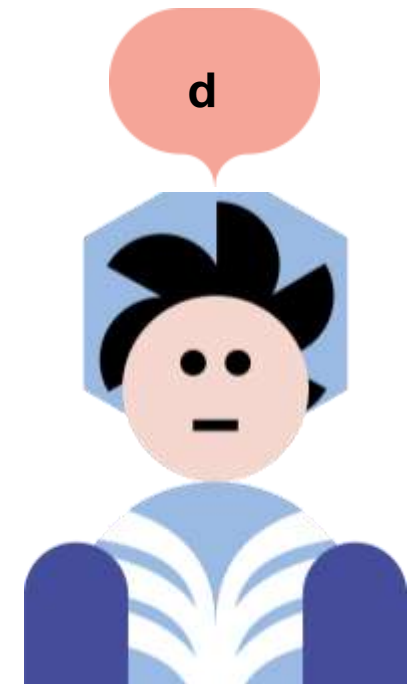


Are you ready?

Let's try some questions.

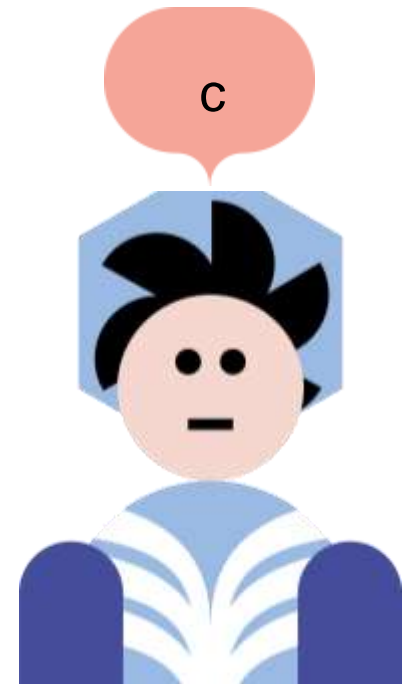


1. A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had:
- a) 588 apples
 - b) 600 apples
 - c) 672 apples
 - d) 700 apples



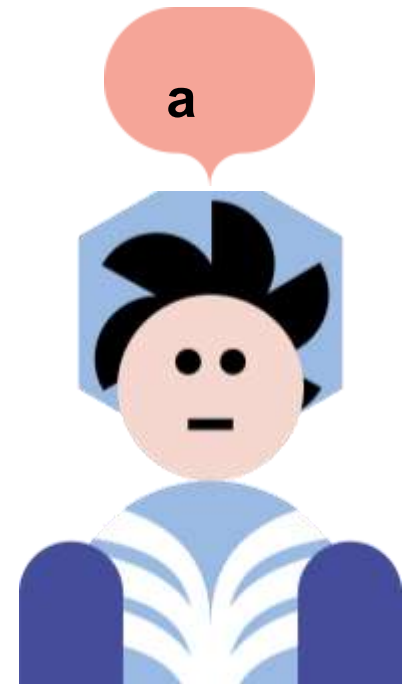
2. Ankita got an average of 70 marks in assignment. She had to submit three essays. If she got 85 and 60 marks in the first two essays, how much did she get for the third essay?

- a) 75
- b) 60
- c) 65
- d) 70



3. In a certain code language "TEARS" is written as "UGDVX", then "SMILE" would be written as:

- A) TOLPJ
- B) TOLNG
- C) TOJPJ
- D) TOKNH



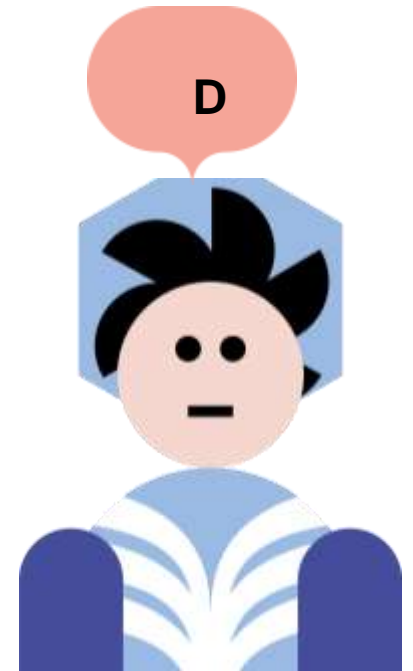
4. ELFA, GLHA, ILJA, _____, MLNA

A) OLPA

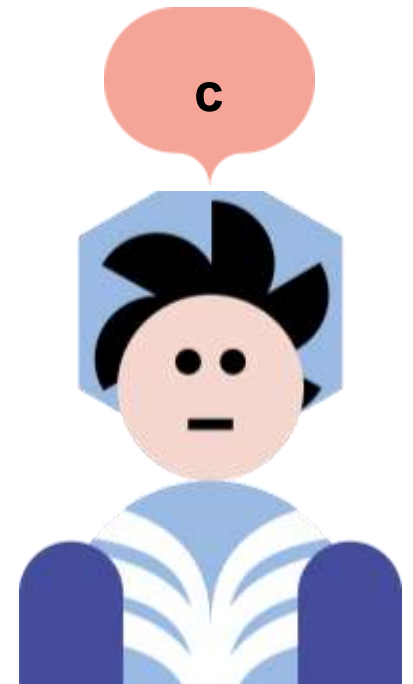
B) KLMA

C) LLMA

D) KLLA

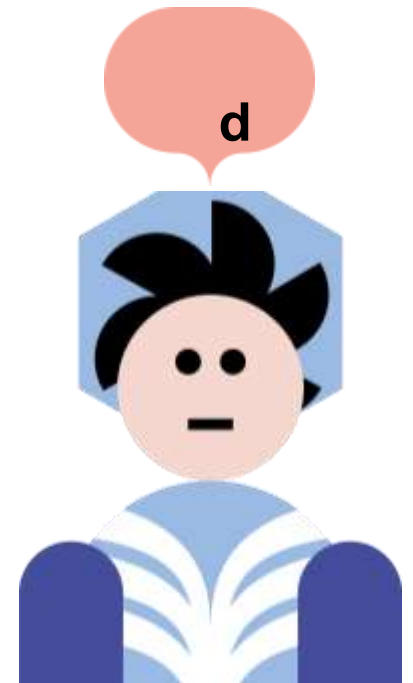


5. Pointing to a Woman on the Station, Maya said, “She is the sister of the father of my mother’s son.” Who is the woman to Maya?
- A. Mother
 - B. Sister
 - C. Aunt
 - D. Niece



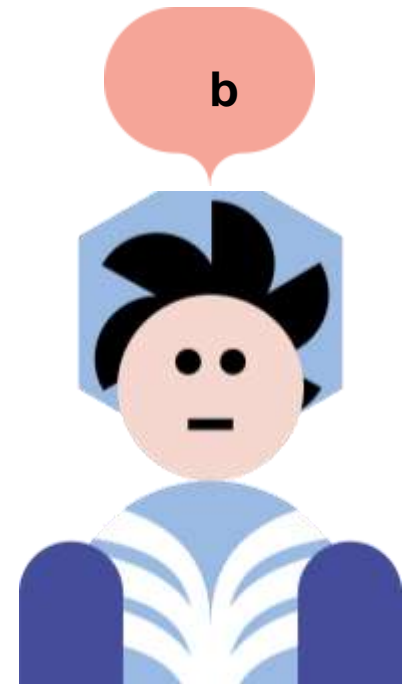
6. Malavika has a salary of 150000 rupees. She has to pay 15% 20% and 25% of her salary on car loan, house rent, and monthly expense respectively. 50% of the remaining money she deposit in stock market. Find the amount she deposit in stock market?

- a. 90000
- b. 45000
- c. 60000
- d. 30000

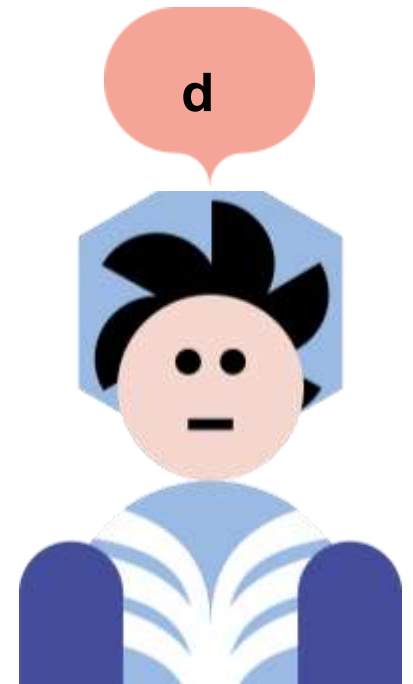


7. Find the next number in the given series
2,3,12,37,86,_____.

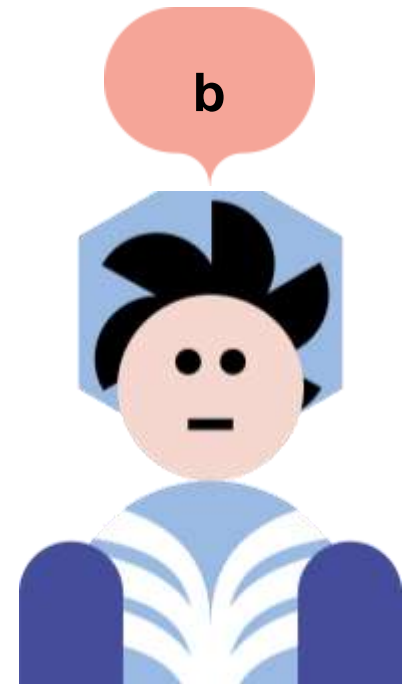
- a) 128
- b) 167
- c) 132
- d) 126



8. A rectangular courtyard 4.55 meters long and 5.25 meters wide is paved exactly with square tiles of same size. Find the largest size of the tile used for this purpose?
- a. 25 cm
 - b. 45 cm
 - c. 21 cm
 - d. 35 cm

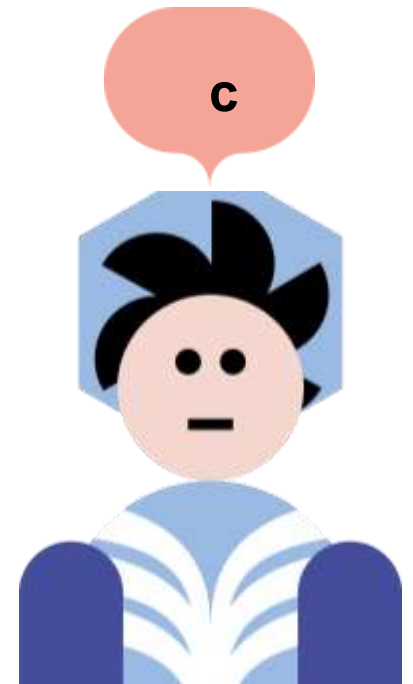


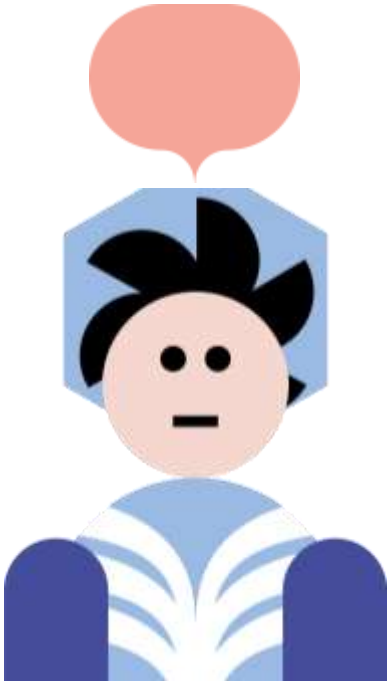
9. Sum of the ages of Rajesh, Suresh, Mahesh and Dinesh is 76 years. 7 years hence, their age ratio is 7:6:5:8. Find Mahesh's present age ?
- A) 17 years
 - B) 13 years
 - C) 14 years
 - D) 16 years



10. If two times of the daughter's age in years is included to the mother's age, the total is 70 and if two times of the mother's age is included to the daughter's age, the total is 95. So the Mother's age is,

- A) 30
- B) 38
- C) 40
- D) 41





**Thank
You**

