



September Sprint for CAT 2025

Class 7

Ratio and Applications



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SNAP – 20
XAT – 10
CMAT – 10
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CUET PG – 10
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CAT and OMETs Mocks by MBA Karo



September Sprint Schedule

Date	Topic	Date	Topic	Date	Topic
01-Sep	Number System - 1	11-Sep	Games and Tournament	21-Sep	Algebra - 3
02-Sep	Arrangement	12-Sep	Odd One Out	22-Sep	Logical DI
03-Sep	Number System - 2	13-Sep	Chart Based DI - 3	23-Sep	Geometry - 1
04-Sep	Para Completion	14-Sep	Arithmetic - 4	24-Sep	Reading Comprehension - 3
05-Sep	Arithmetic - 1	15-Sep	Venn Diagram	25-Sep	Geometry - 2
06-Sep	Chart Based DI - 1	16-Sep	Reading Comprehension - 2	26-Sep	Quantitative Reasoning
07-Sep	Arithmetic - 2	17-Sep	Algebra - 1	27-Sep	Geometry - 3
08-Sep	Reading Comprehension - 1	18-Sep	Routes and Network	28-Sep	Parajumbles
09-Sep	Chart Based DI - 2	19-Sep	Algebra - 2	29-Sep	Misc. LR topics
10-Sep	Arithmetic - 3	20-Sep	Para Summary	30-Sep	Modern Maths





In 2023, Anant, Mohit, and Sachin had salaries in the ratio $7/10:5/6:4/5$. In 2024, their salaries increased by 7000, 5000, and 8000 respectively. The ratio of the salaries of Anant, Mohit, and Sachin in 2024 is 7:8:8. What was the salary of Anant in 2023?



The ratio of the sum of the present ages of a couple and the sum of their ages 11 years ago is 9:7. They have two children. The son is half as old as the father and the daughter is 5 years younger than her brother. If the sum of the ages of the children is the same as the present age of the mother, what is the present age of the daughter?

- A. 26 years
- B. 21 years
- C. 24 years
- D. 19 years



There are five points in a row. The ratio of the distance between the first and the second point and the distance between the second and third points is 2:3. Similarly, the ratio of the distance between the second and the third point and the distance between the third and fourth points is 2:3. The ratio of the distance between the third and the fourth point and the distance between the fourth and fifth points is also 2:3. The distance between the first and second points is approximate what percentage of the distance between the first and the fifth point?

- A. 12.3%
- B. 13.2%
- C. 14.4%
- D. 15.3%



The cost of a diamond is directly proportional to the square of its weight. The value of a diamond weighing 21 g is 96% more than the combined value of two diamonds whose combined weight is 21 g. What is the weight of the heavier of the two diamonds?

- A. 13 g
- B. 15 g
- C. 14 g
- D. 12 g



In a company, there are two kinds of people, Hindi-speaking and Marathi-speaking. If 120 Hindi-speaking people leave the company then the ratio of Hindi-speaking and Marathi-speaking people would become 9:7. Instead, if 80 Marathi-speaking people leave the company then the ratio of Hindi-speaking and Marathi-speaking people would become 33:17. What is the total number of people in the company?



The quantity of apples, bananas, and oranges in a shop is in the ratio 5:10:4. A fruit seller M purchases 20% of apples, 10% bananas, and 15% oranges from the shop, the total of which was 25% less than the total quantity of fruits bought by another fruit seller N. N bought 19 kg bananas less than those bought by M and bananas accounted for $\frac{1}{6}$ th of his total purchase. Find the total quantity of all three fruits the shop had.

- A. 950 kg
- B. 760 kg
- C. 855 kg
- D. 912 kg



An MBA exam has 120 questions, and has a breakup of English, reasoning, and quant questions in the ratio of 5:11:8. The maximum marks of the exam are 200 where the questions from all three subjects carry different marks. English has the least marks per question. The difference between per question marks of Quant and English is 0.3 and the ratio of total marks of reasoning and quant is 11: 6. If a student attempts 40% English, 90(10/11)% reasoning, and 50% quant correct then find the percent marks scored by the student. Assume there is no negative marking.

- A. 71%
- B. 68%
- C. 75%
- D. 64%



Bottle 1 contains milk and water in 7:2 and Bottle 2 contains milk and water in 9:4. In what ratio, should the liquids in Bottle 1 and Bottle 2 be combined to obtain a mixture of milk and water in a ratio of 3:1?

- A. 5:3
- B. 27:13
- C. 11:9
- D. 17:8



A wheat of Rs. x /kg is mixed with wheat of Rs. y /kg in a ratio of 2:3. On selling the mixture at Rs. 49/kg there is a gain of $16\frac{2}{3}\%$. If the quantity in which they were mixed is reversed and the selling price remains the same, then the gain percent becomes $28\frac{18}{19}\%$. What is the value of x ?



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Milk in vessel A is 50% more than water in vessel A and water in vessel B is 40% more than the milk in vessel B. The mixture from vessels A and B is mixed in a ratio of 3:5 and the quantity of milk in the final mixture is 49 liters less than the quantity of the water, find the final quantity of the mixture.

- A. 1540 liters
- B. 1680 liters
- C. 1750 liters
- D. 1890 liters



How many liters should be removed out of 40 liters of a solution of milk and water and be replaced with an equal amount of water so that the proportion of milk drops from 80% to 75%?

- A. 2 liters
- B. 2.5 liters
- C. 3 liters
- D. 4 liters



In vessel A, 80% is milk and the rest is water. Vessel B contains 62.5% milk and the rest water. 25 liters of the mixture is taken out from vessel A and poured into vessel B so that milk becomes 100% more than water in vessel B. If the new volume of mixture in vessel B is 16% less than the initial volume of mixture in vessel A, what was the initial volume of milk in vessel A?

- A. 80 L
- B. 100 L
- C. 120 L
- D. 128 L



A container is having 30 liters of pure milk. In the first operation, 10 liters of it is flushed away and replaced with 20 liters of water. Then 10 liters of the resulting solution is again flushed away and replaced with 20 liters of water. What is the ratio of water to milk after 5 such operations?

- A. 11:2
- B. 21:7
- C. 25:3
- D. 28:5



'A', 'B', and 'C' started a business with investments in the ratio 5:3:1, respectively for a period of 15 months, 20 months, and 30 months. 'B' is an active partner and received Rs. 11000 extra out of the total profit and the remaining profit is distributed among all three in the ratio of their investment. If 'B' received Rs. 15000 then find the total profit received by them.



A started a business by investing a certain amount. After some time, B joined the business by investing 50% more than A. After 1 more month, C joined the business by investing 20% more than A. If at the end of one year, the ratio of B's profit to A's profit is 3: 4, find the ratio of B's profit to C's profit.

- A. 4:3
- B. 2:1
- C. 3:2
- D. 1:1



1. A college had 828 students, and the ratio of the number of boys to the number of girls was 11:7. In the next year, the number of boys was reduced by 86, and the number of girls increased by 'G'. The ratio of boys to girls now became 15:13. Find the value of G.

2. A container contains a 56 liters mixture of oil and water. 6 liters of oil and 6 liters of water are added to it. Then, 3 liters of water is added to the mixture to make the ratio of oil and water 2:1. Find the initial ratio of oil and water.
A. 3:1
B. 19:9
C. 31:11
D. 43:13

3. A person P started a business with a capital of Rs. 10100 and another person Q joined P after some months with a capital of Rs. 4800. Out of the total profit of Rs. 16440 at the end of the year, Q's share was Rs. 4320. After how many months did Q join as a partner of P?

Answer in comments



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