

REASONING

Arithmetical Problem Worksheet for MAH MCA CET 2025

For students preparing for MCA Entrance Exam.

1. Rs 1,875 is divided among A, B and C in such a way that A's share is half of the combined share of B and C, and B's share is one-fourth of the combined share of A and C. By what amount is C's share more than that of A?

- A. Rs 500
- B. Rs 225
- C. Rs 250
- D. Rs 200

2. Three of the following four numbers are alike in a certain way and one is different. Pick the number that is different from the rest.

- A. 338
- B. 217
- C. 28
- D. 65

3. Two mixtures contain milk and juice in the ratio of 2: 1 and 4: 5. If equal volumes of the two mixtures are mixed together, what would be the ratio of milk to juice in the resulting mixture?

- A. 7:5
- B. 1:1
- C. 5:3
- D. 5:4

4. Rs 820 is divided among 6 men, 8 women and 12 boys in such a way that every woman gets an amount equal to that received by one man and one boy combined and that every man gets one and a half times the amount received by a boy. What is the total amount received by 8 women?

- A. Rs 400
- B. Rs 300
- C. Rs 240
- D. Rs 380

5. A contractor planned to finish work in 12 days and employed a certain number of men. However, 6 of them remained absent from the very first day. The rest could finish the work in 20 days. The number of men originally employed were:

- A. 15
- B. 18
- C. 20
- D. 24

6. A cycle was sold for Rs. 4140 with a profit of 15%. At what price could it have been sold to earn a profit of 25%?

- A. Rs. 4500
- B. Rs. 4350
- C. Rs. 4200
- D. Rs. 4850

7. The average of 9 numbers is 40. If the average of the first five numbers is 38 and the average of the last five numbers is 50, then what is the fifth number?

- A. 90
- B. 84
- C. 78
- D. 80

8. At a party, the number of girls is half the number of boys. After an hour, five boys leave the party and three girls join the party. Now the number of both becomes equal in the party. How many people were there at the party an hour before?

- A. 16
- B. 8
- C. 24
- D. 22

9. A cube coloured pink on all faces is cut into 27 small cubes of equal sizes. How many cubes are painted on one face only?

- A. 4
- B. 3
- C. 8
- D. 6

10. If you wrote down all the numbers from 1 to 99, then how many times would you have written '7'?

- A. 19
- B. 11
- C. 21
- D. 20

11. A plastic toy costs Rs. 7. A plastic spoon costs Rs. 5. X spends Rs. 38 on these plastic items. Find the number of plastic toys he/she purchased.

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

12. Rahul has Rs. 340 in the denominations of Rs. 2 notes, Rs. 5 notes and Rs. 10 notes. The number of notes of each denomination is equal. What is the total number of notes that Rahul has?

- A. 40
- B. 60
- C. 20
- D. 80

13. The sum of the squares of three numbers is 336 and the ratio of the first and the second as also of the second and third is 1: 2. Then find the difference between the third and first number.

- A. 10
- B. 14
- C. 12
- D. 16

14. Gopal's age is the cube of a number. It was the square of a number two years ago. What is his age?

- A. 9
- B. 62
- C. 27
- D. 64

15. Ranga got thrice as many sums wrong as he got right in a mathematics assignment. If he attempted 72 sums in all, how many did he solve correctly in his mathematics assignment?

- A. 16
- B. 20
- C. 14
- D. 18

16. Rs. 2100 is divided among in P, Q and R in such a way that P's share is half of the combined share of Q and R, and Q's share is one-fourth of the combined share of P and R. By what amount is R's share more than that of P?

- A. Rs. 280
- B. Rs. 500
- C. Rs. 200
- D. Rs. 250

17. Twenty teams take part in a football tournament. Each team has to play every other team. How many games would be played in the tournament?

- A. 195
- B. 190
- C. 170
- D. 180

18. In the month of June, the number of girls in a class was half of the number of boys. In July, five more girls took admission, whereas five boys left the school. Now, the number of boys and girls is equal in the class. How many students in total were there in the class in June?

- A. 30
- B. 25
- C. 35
- D. 20

19. The total age of a mother and her son is 60 years. The difference between their ages is 30 years. Find out the age of the mother.

- A. 50 years
- B. 45 years
- C. 35 years
- D. 40 years

20. There are fourteen teams playing in a tournament. If every team plays one match with every other team, how many matches will be played in the tournament?

- A. 66
- B. 78
- C. 91
- D. 101

Answer Key

1. C	2. A	3. D	4. A	5. A	6. A	7. D	8. C	9. D	10. D
11. B	12. B	13. C	14. D	15. D	16. A	17. B	18. A	19. B	20. C

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