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# Maths Questions for CLAT Exam.

## CLAT Maths Quiz 16

**Directions :** Study the following information carefully and answer the questions given beside.

Five friends participated in an Olympiad of 500 marks. Friends are Arun, Chandra, Dhruv, Sumit and Raaj respectively. Arun scored 30% marks, Dhruv scored 50 marks more than Arun. Sumit scored 10% more marks than Dhruv. Arun scored 62.5% less marks than Raaj. The Sum of the marks of all the friends is 1270.

**1. Who scored the highest marks?**

- A. Raaj                      B. Arun                      C. Sumit                      D. Chandra

**2. Sumit scored what percent of the total marks of the Olympiad?**

- A. 40%                      B. 44%                      C. 54%                      D. 50%

**3. What is the difference between marks of Sumit and Raaj?**

- A. 150                      B. 160                      C. 170                      D. 180

**4. Chandra scored how much percent more than Arun?**

- A. 75%                      B. 80%                      C. 90%                      D. 100%

**5. What is the respective ratio of the marks scored by Raaj and Arun together to the marks scored by Chandra and Dhruv together?**

- A. 7 : 8                      B. 8 : 9                      C. 11 : 10                      D. 10 : 9

**6. How many of them pass the Olympiad examination, if the minimum passing marks are equal to 40% of the maximum marks of the exam?**

- A. One                      B. Two                      C. Four                      D. Three

**7. The Olympiad exam has 50 questions, 10 marks are given for each correct answer and 2 marks are deducted for each wrong answer and no marks are given or deducted for not attempting a question. If Arun attempted 45 questions, how many questions did he answer incorrectly?**

- A. 20                      B. 25                      C. 15                      D. None of these

**8. What is the difference between the average marks scored by Raaz and Chandra together and the average marks scored by Dhruv and Sumit together?**

A. 140

B. 100

C. 120

D. 110

**9. Which of the following friends scored the second lowest marks?**

A. Sumit

B. Dhruv

C. Raaz

D. Arun

**10. Arun scored what percent less than that of Chandra?**

A. 33.33

B. 37.5

C. 45

D. 50

**Correct Answers:**

1	2	3	4	5	6	7	8	9	10
A	B	D	D	C	C	B	A	B	D



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## Common explanations :

Total marks of the Olympiad = 500

Total marks obtained by the five friends = 1270

$$\text{Arun scored} = \frac{30 \times 500}{100} = 150$$

$$\text{Dhruv scored} = 150 + 50 = 200$$

$$\text{Sumit scored} = 200 (1.1) = 220$$

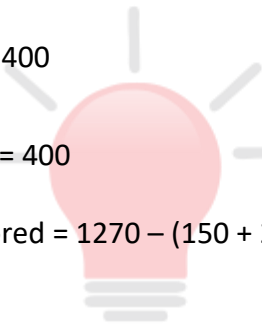
Arun scored 62.5% less marks than Raaj,

$$\frac{(R - 150) \times 100}{R} = 62.5$$

$$R = \frac{15000}{37.5} = 400$$

$$\text{Raaj scored} = 400$$

$$\text{Chandra scored} = 1270 - (150 + 200 + 220 + 400) = 300$$



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## Explanations :

1. From common explanation, we have  
Highest marks scored by Raaj i.e., 400 marks.  
Hence, option A is correct.

2. From common explanation, we have  
Sumit scored = 220  
$$\text{Reqd. \%} = \frac{220 \times 100}{500} = 44\%$$
  
Hence, option B is correct.

3. From common explanation, we have  
Sumit scored = 220  
Raaj scored = 400  
Difference =  $400 - 220 = 180$   
Hence, option D is correct.

4. From common explanation, we have  
Chandra scored = 300  
Arun scored = 150  
$$\text{Reqd. \%} = \frac{300 - 150}{150} \times 100 = 100\%$$
  
Hence, option D is correct.



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5. From common explanation, we have

Marks scored by Raaj and Arun =  $400 + 150 = 550$

Marks scored by Chandra and Dhruv =  $300 + 200 = 500$

$$\text{Ratio} = \frac{550}{500} = \frac{11}{10}$$

Hence, option C is correct.

6. From the common explanation, we have

Arun scored = 150

Dhruv Scored = 200

Sumit Scored = 220

Raaz scored = 400

Chandra scored = 300

Minimum passing marks =  $40\%$  of  $500 = 200$

Thus, 4 of them pass the examination

Hence, Option C is correct.

7. From the common explanation, we have

Arun scored = 150

Let he attempted  $x$  questions incorrectly.

So, Questions he attempted correctly =  $45 - x$

$$(45 - x) \times 10 - x \times 2 = 150$$

$$450 - 150 = 12x$$

$$x = 25$$

Hence, Option B is correct.

**8.** From the common explanation, we have

Dhruv Scored = 200

Sumit Scored = 220

Raaz scored = 400

Chandra scored = 300

Avg marks scored by Raaz and Chandra =  $(400+300)/2 = 350$

Avg marks scored by Dhruv and Sumit =  $(200+220)/2 = 210$

Reqd. Difference =  $350 - 210 = 140$

Hence, Option A is correct.

**9.** From the common explanation, we have

Dhruv Scored = 200

Sumit Scored = 220

Raaz scored = 400

Chandra scored = 300

Arun scored = 150

Thus, Dhruv scored the second lowest marks

Hence, Option B is correct.

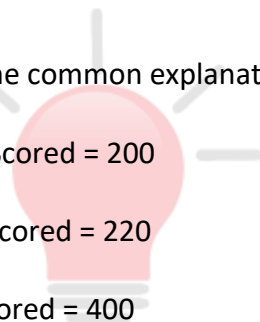
**10.** From the common explanation, we have

Chandra scored = 300

Arun scored = 150

Reqd. % =  $(300 - 150)/300 \times 100\% = 50\%$

Hence, Option D is correct.



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