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# Maths Questions for CLAT Exam.

## CLAT Maths Quiz 20

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

There are four colleges A, B, C and D and each college has different number of boys and girls. The number of boys in college A is 112 and the average of the number of boys in college A and D together is 104. The number of total students in college D is 228. The ratio of the number of girls in college B to D is 5:6. The number of boys in college C is 14 more than the number of girls in college B. The number of girls in college C is 90. The total number of students in college B is 218. The ratio of the number of girls in college A to number of boys in college B is 10 : 9.

1. Find the number of boys in college C.

- A. 124                      B. 132                      C. 138                      D. 108

2. What is the total number of students in college A?

- A. 256                      B. 244                      C. 232                      D. 212

3. What is the ratio of the number of girls to boys in college D?

- A. 8 : 9                      B. 7 : 10                      C. 5 : 8                      D. 11 : 8

4. Find the number of boys in college B.

- A. 102                      B. 96                      C. 120                      D. 108

5. What is the average of the number of girls in college B and D together?

- A. 132                      B. 124                      C. 121                      D. 112

6. Find the total number of boys in all the given colleges.

- A. 440                      B. 452                      C. 442                      D. 450

7. The number of girls in College A is what percent of the number of girls in College C?

- A. 75                      B. 133.33                      C. 150                      D. 87.5

**8. What is the ratio of total students of College A to that of College B?**

A. 118 : 109

B. 117 : 109

C. 116 : 109

D. 118 : 109

**9. Find the difference between the number of girls in College B and the number of girls in College C.**

A. 25

B. 15

C. 18

D. 20

**10. What is the average of the total number of Girls in all the given colleges?**

A. 110

B. 115

C. 112

D. 113

**Correct Answers:**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
A	C	D	D	C	A	B	C	D	D



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## Common explanations :

The number of boys in college is A = 112

The total number of boys in college A and D =  $104 \times 2 = 208$

The number of boys in college D =  $208 - 112 = 96$

The number of girls in college D =  $228 - 96 = 132$

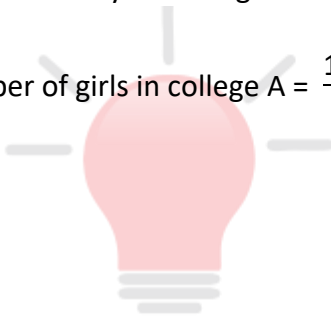
The number of girls in college B =  $\frac{132}{6} \times 5 = 110$

The number of boys in college C =  $110 + 14 = 124$

The number of girls in college C = 90

The number of boys in college B =  $218 - 110 = 108$

The number of girls in college A =  $\frac{108}{9} \times 10 = 120$



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## Explanations :

1. Following the common explanation, we get

Number of boys in college C = 124

Hence, option A is correct.

2. Following the common explanation, we get

Number of students in college A =  $120 + 112 = 232$

Hence, option C is correct.

3. Following the common explanation, we get

Required ratio =  $132 : 96 = 11 : 8$

Hence, option D is correct.

4. Following the common explanation, we get

Number of boys in college B = 108

Hence, option D is correct.

5. Following the common explanation, we get

$$\text{Reqd. average} = \frac{110 + 132}{2} = \frac{242}{2} = 121$$

Hence, option C is correct.

6. From common explanation, we have

Number of boys in College A = 112

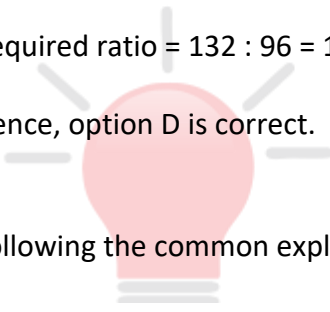
Number of boys in College B = 108

Number of boys in College C = 124

Number of boys in College D = 96

Reqd. Answer = 440

Hence, Option A is correct.



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**7.** From common explanation, we have

Number of girls in College A = 120

Number of girls in College C = 90

Reqd. Answer =  $120/90 \times 100\% = 133.33\%$

Hence, Option B is correct.

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

Total number of students in College A =  $112 + 120 = 232$

Total number of students in College B =  $108 + 110 = 218$

Reqd. Ratio =  $232 : 218 = 116 : 109$

Hence, Option C is correct.

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

Number of girls in College B = 110

Number of girls in College C = 90

Reqd. Difference =  $110 - 90 = 20$

Hence, Option D is correct.

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

Number of girls in College A = 120

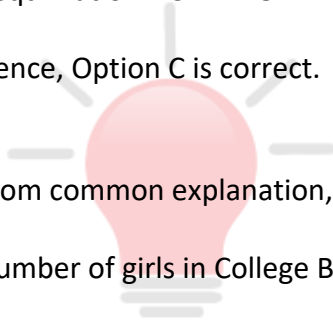
Number of girls in College B = 110

Number of girls in College C = 90

Number of girls in College D = 132

Reqd. Answer =  $(120 + 110 + 90 + 132)/4 = 113$

Hence, Option D is correct.



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