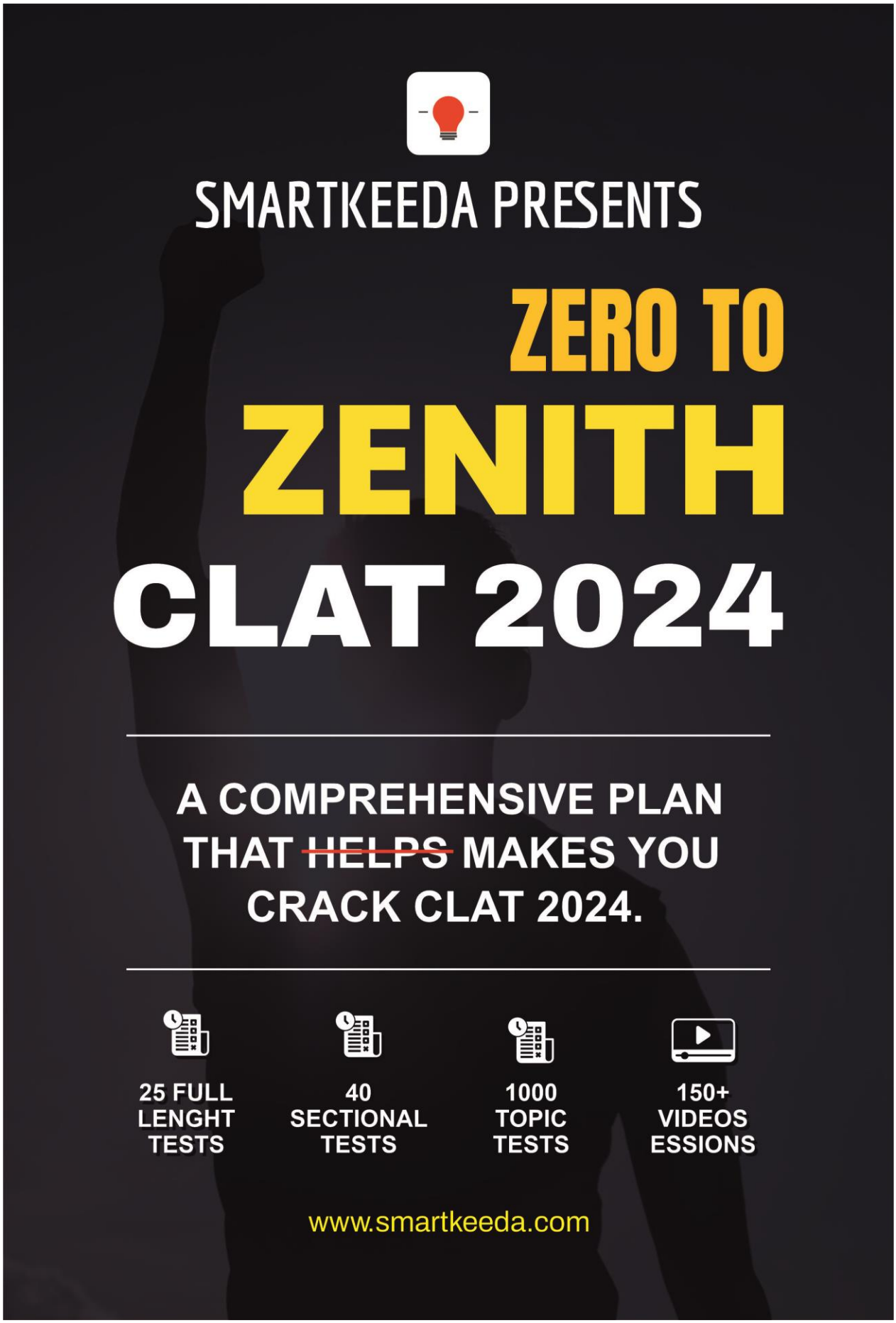
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Maths Questions for CLAT Exam.

CLAT Maths Quiz 5

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

There are 600 students in school 'XYZ' and they like 2 types of music either Classical or Jazz. The ratio of boys to girls who like Jazz is 8 : 9 and total number of boys who like Classical is 40 less than total number of girls who like Jazz. Total number of girls who like Classical is 20 less than the number of boys who like Classical.

1. Find the difference between the total number of boys who like Jazz and total number of boys who like Classical?

A. 30 B. 35 C. 40 D. 20

2. Total number of boys who like Jazz and Classical together is what percentage of the total number of girls who like Jazz and Classical together?

A. 100% B. 120% C. 110% D. 90%

3. The number of girls in Jazz is how much percentage more than the number of girls who who like Classical?

A. 40% B. 35% C. 50% D. 45%

4. If 80 more students are included who like Classical, then what will be the number of boys among 80 students such that the ratio of boys to girls who like Classical becomes 10 : 7?

A. 70 B. 60 C. 55 D. 65

5. What is the ratio of the number of boys who like Jazz to the number of girls who like Classical?

A. 1 : 2 B. 4 : 3 C. 3 : 2 D. 2 : 5

6. Find the ratio of the total number of boys to that of girls in the school.

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

7. If 40 boys who like classical started liking Jazz, what will be the new ratio of the number of boys to that of girls who like Jazz?

A. 5 : 7 B. 6 : 7 C. 10 : 9 D.4 : 9

8. The total number of students who like Classical is how much percent less than that of students who like Jazz?

A. 300/17 B. 400/17 C. 200/17 D. 400/13

9. Find the difference between the number of boys who like classical music and that of girls who like Jazz.

A. 30 B. 50 C. 70 D. 40

10. If 80 students who like Jazz leave the school, the ratio of the number of boys to that of girls who like Jazz will become 11 : 15. How many students amongst 80 were girls?

A. 40 B. 30 C. 50 D. 25

Correct Answers:

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

Common explanation :

Let the number of boys who like Jazz are 8x.

The number of girls who like Jazz = 9x

The number of boys who like Classical = 9x – 40

The number of girls who like Classical = 9x – 40 – 20 = 9x – 60

Total number of students = 600

27x + 8x – 100 = 600

35x = 700

x = 20

The number of boys who like Jazz = 160

The number of boys who like Classical = 140

The number of girls who like Jazz = 180

The number of girls who like Classical = 120

Explanations :

1. Following the common explanation, we get

Boys who like Jazz = 160

Boys who like Classical = 140

Required difference = 160 – 140= 20

Hence, option D is correct.

2. Following the common explanation, we get

Total number of boys who like Jazz and Classical together = 160 + 140 = 300

Total number of girls who like Jazz and Classical together = 180 + 120 = 300

$$\text{Reqd. \%} = \frac{300 \times 100}{300} = 100\%$$

Hence, option A is correct.

3. Following the common explanation, we get

Number of girls who like Jazz = 180

Number of girls who like Classical = 120

$$\text{Reqd. \%} = \frac{(180 - 120) \times 100}{120} = 50\%$$

Hence, option C is correct.

4. Following the common explanation, we get

Number of boys who like Classical = 140

Number of girls who like Classical = 120

When 80 students are included, the ratio becomes 10 : 7

Let x boys are included,

$$\frac{140 + x}{120 + 80 - x} = \frac{10}{7}$$

x = 60

Hence, option B is correct.

5. Following the common explanation, we get

Number of boys who like Jazz = 160

Number of girls who like Classical = 120

Reqd. ratio = $\frac{160}{120}$ = 4 : 3

Hence, option B is correct.

6. From the common explanation, we have

New number of boys who like Jazz = 160 + 40 = 200

The number of girls who like Jazz = 180

Reqd. Ratio = 200 : 180 = 10 : 9

Hence, Option C is correct.

7. From the common explanation, we have

Total students who like Jazz = 160 + 180 = 340

Total students who like classical = 140 + 120 = 260

Reqd. % = {(340 – 260)/340} × 100% = (400/17)%

Hence, Option B is correct.

8. Total editors = 300 + 360 = 760

Hence, Option A is correct.

9. From the common explanation, we have

The number of boys who like classical = 140

The number of girls who like Jazz = 180

Reqd. difference = 180 – 140 = 40

Hence, Option D is correct.

10. From the common explanation, we have

The new numbers of boys who like Jazz = 11x

The new numbers of girls who like Jazz = 15x

11x + 15x = (160 + 140) – 80

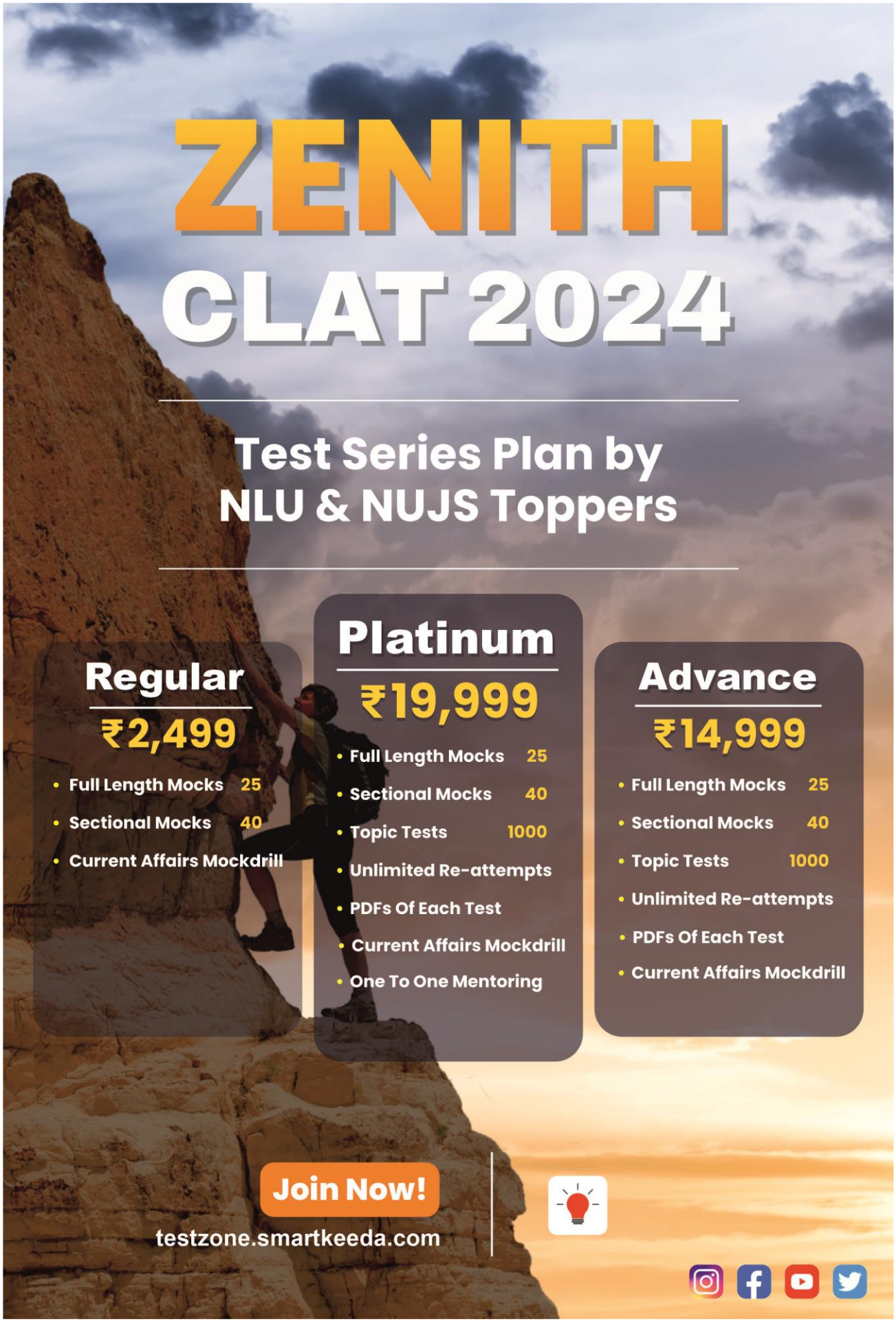
26x = 260

x = 10

New number of girls who like Jazz = 15 × 10 = 150

Reqd. Answer = 180 – 150 = 30

Hence, Option B is correct.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