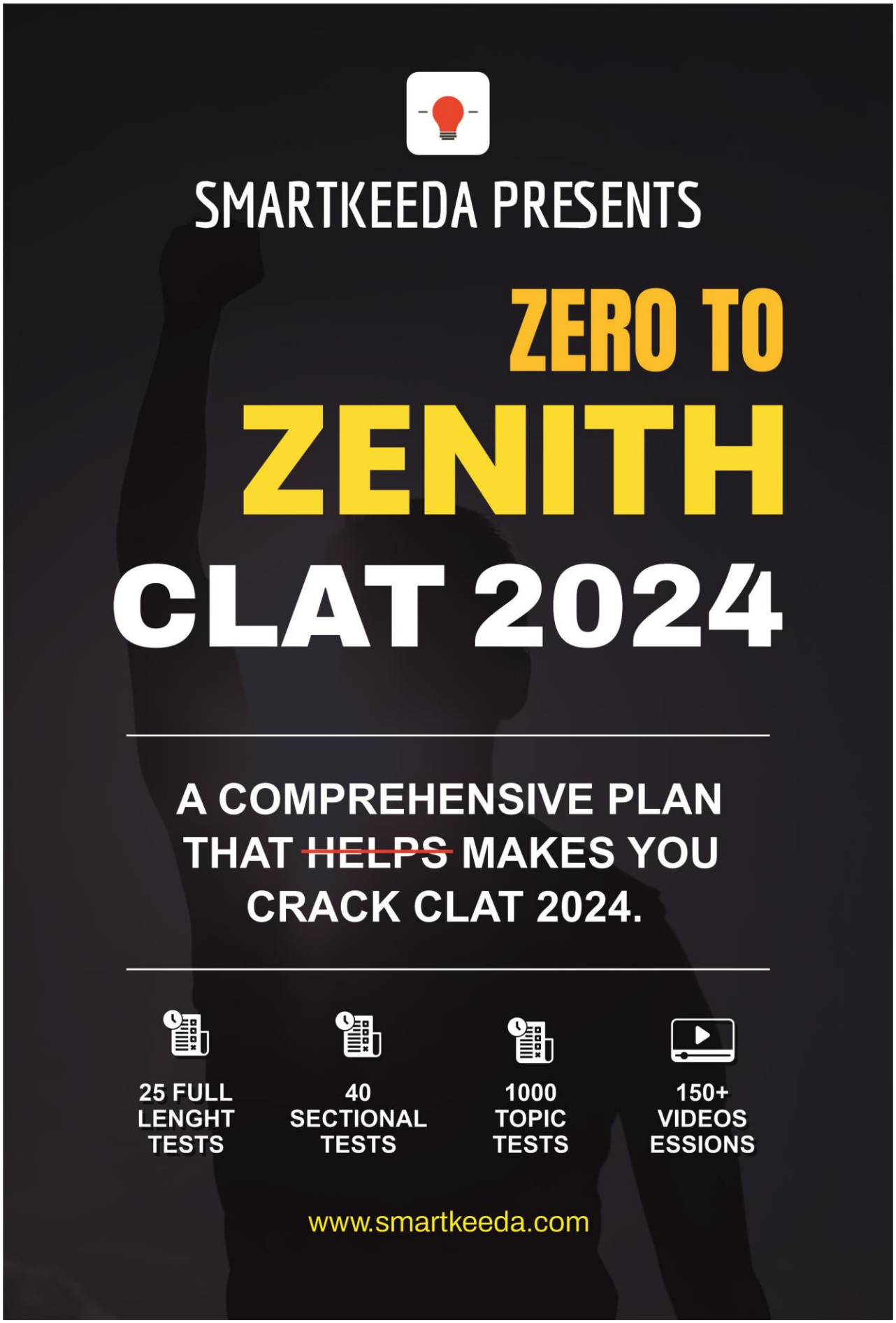
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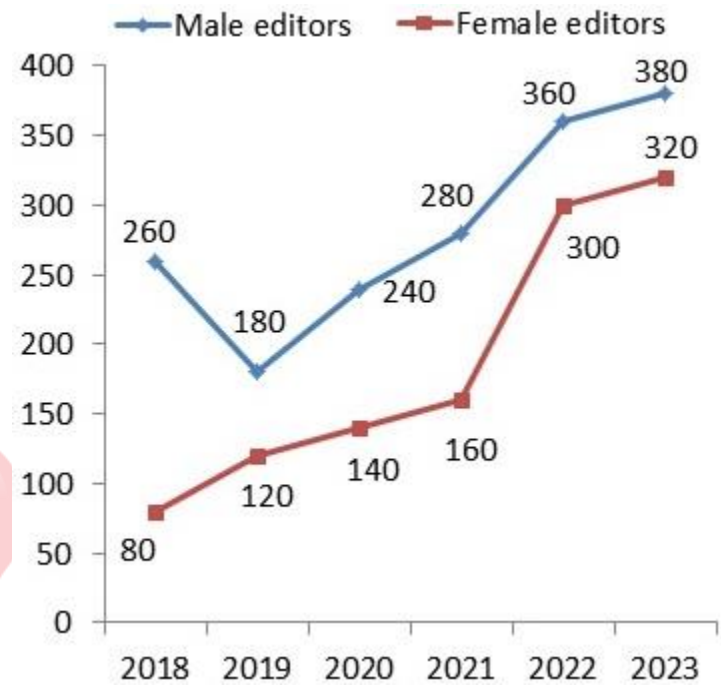
Maths Questions for CLAT Exam.

CLAT Maths Quiz 6

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

Line chart given below shows number of newspaper editors working in six different years.



1. Total number of male editors working in 2019 and 2020 together is what percentage of the total number of editors (male and female) working in 2021?

A.95.45% B.85.45% C.75.45% D.93.45%

2. Average number of female editors working in 2021, 2022 and 2023 together is how much less than average number of male editors working in 2018, 2021 and 2023 together?

A. 56.67 B. 38.67 C. 46.67 D. 44.67

3. Number of male editors working in 2024 is 10% more than the number of male editors working in 2022 while number of female editors working in 2024 is 40% less than the number of female editors working in 2021. Find the total number of editors (male and female) working in 2024?

A. 502 B. 512 C. 492 D. 482

4. Find the ratio between total number of editors (male and female) working in 2019 and 2020 together to total number of editors (male and female) working in 2022 and 2023 together?

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

5. Female editors working in 2019, 2020 and 2021 together is how much percentage less than Male editors working in 2018, 2019 and 2020 together?

A. 43.23% B. 36.23% C. 38.23% D. 35.23%

6. If the number of male editors in 2017 was 10% less than the number of male editors in 2018 and the number of female editors in 2017 was 10% more than the number of female editors in 2018, find the difference between the number of male editors in 2017 and the number of female editors in 2017.

A. 146 B. 148 C. 162 D. 164

7. The number of male editors in 2020 is what percent more than the number of male editors in 2019?

A. 24% B. 33.33% C. 25% D. 66.66%

8. How many total editors working in 2022?

A. 760 B. 740 C. 780 D. None of these

9. In which of the following years, the difference between the number of male editors and the number of female editors is maximum?

A. 2019 B. 2020 C. 2021 D. 2018

10. Find the percentage change in the total number of editors (male + number) working from 2020 to 2023.

A. 48% B. (320/7)% C. 200% D. (1600/19)%

Correct Answers:

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

Explanations :

1. Male editors in 2019 and 2020 = 180 + 240 = 420

Male and female editors on 2021 = 280 + 160 = 440

$$\text{Reqd. \%} = \frac{420 \times 100}{440} = 95.45\%$$

Hence, option A is correct.

2. Number of female editors working in 2021, 2022 and 2023 = 160+300+320 = 780

$$\text{Average} = \frac{780}{3} = 260$$

Number of male editors working in 2018, 2021 and 2023 = 260+280+380 = 920

$$\text{Average} = \frac{920}{3} = 306.67$$

Required difference = 306.67 – 260 = 46.67

Hence, option C is correct.

3. Male editors in 2022 = 360

$$\text{Male editors in 2024} = 360 + \frac{360 \times 10}{100} = 396$$

Female editors in 2021 = 160

$$\text{Female editors in 2024} = 160 - \frac{160 \times 40}{100} = 96$$

Total number of editors in 2024 = 396 + 96 = 492

Hence, option C is correct.

4. Total number of editors in 2019 = 180 + 120 = 300

Total number of editors in 2020 = 240 + 140 = 380

2019 and 2020 total editors = 300 + 380 = 680

Total number of editors in 2022 = 360 + 300 = 660

Total number of editors in 2023 = 380 + 320 = 700

2022 and 2023 total editors = 660 + 700 = 1360

Reqd. ratio = $\frac{680}{1360} = \frac{1}{2}$

Hence, option D is correct.

5. Female editors in 2019, 2020 and 2021 = 120 + 140 + 160 = 420

Male editors in 2018, 2019 and 2020 = 260 + 180 + 240 = 680

Reqd. % = $\frac{(680 - 420) \times 100}{680} = 38.23\%$

Hence, option C is correct.

6. Number of male editors in 2017 = (100 – 10)% of 260

Number of male editors in 2017 = 90% of 260 = 234

Number of female editors in 2017 = (100 + 10)% of 80 = 88

Reqd. Difference = 234 – 88 = 146

Hence, Option A is correct.

7. Reqd. % = (240 – 180)/180 × 100% = 33.33%

Hence, Option B is correct.

8. Total editors = 300 + 360 = 760

Hence, Option A is correct.

9. In 2019, Difference = 180 – 120 = 60

In 2020, Difference = 240 – 140 = 100

In 2021, Difference = 280 – 160 = 120

In 2018, Difference = 260 – 80 = 180

Thus, answer is option D

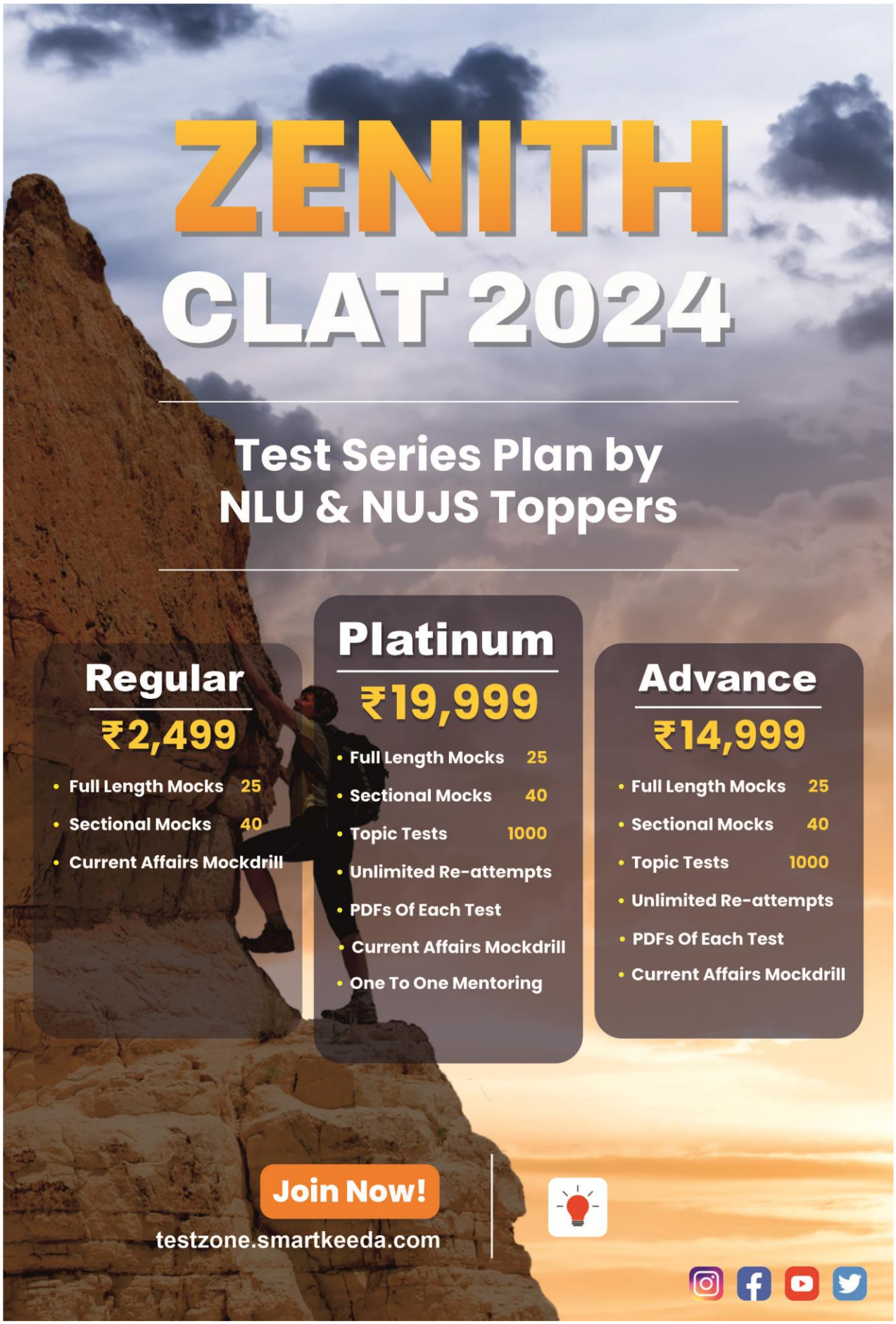
Hence, Option D is correct.

10. Total number of editors in 2020 = 140 + 240 = 380

Total number of editors in 2023 = 380 + 320 = 700

Reqd. % change = $\frac{(700-380)\times 100}{380} = \frac{1600}{19}\%$

Hence, option D is correct.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