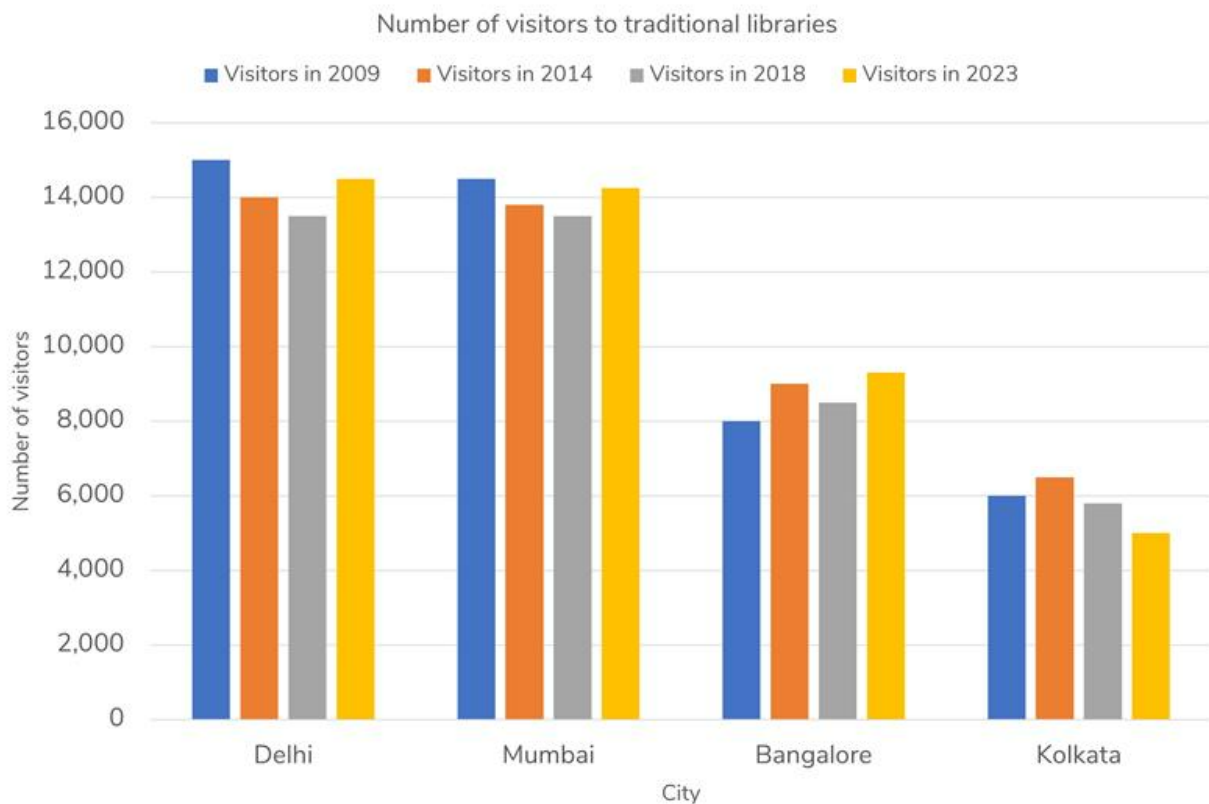


GMAT Graphics Interpretation Practice Question with Solution

QUESTION:

As the digital age advances, the number of visitors to traditional libraries across various cities in India has seen a shift. The chart provided highlights the visitor counts in four distinct cities for 4 different years in a span of 14 years.



Please complete the statement that most accurately reflects the information provided.

Between 2009 and 2023, the visitor count to traditional libraries in _____ saw an increase of approximately _____ percent, rounded to the nearest 10 percent.

SOLUTION:

Understanding the conditions given

The graph depicts the number of visitors to traditional libraries in four different cities over a span of 14 years.

- There are four distinct years mentioned: 2009, 2014, 2018, and 2023.
- The cities in focus are Delhi, Mumbai, Bangalore, and Kolkata.

Question Stem Analysis

The objective is to identify the city that saw an increase in the visitor count from 2009 to 2023 and then estimate the approximate percentage increase, rounded to the nearest 10 percent.

Processing the conditions

Blank 1:

Between 2009 and 2023, the visitor count to traditional libraries in _____ saw an increase.

- To read the visitor counts in 2009 and 2023, we only observe the heights of two bars – blue and yellow.
 - If the yellow bar is higher than the blue bar, it means the visitor count increased from 2009 to 2023. Else, it stayed the same or dropped.
- Observing all four cities one by one, we get the following:
 - Delhi: Decrease in visitor count.
 - Mumbai: Decrease in visitor count.
 - Bangalore: **Increase** in visitor count.
 - Kolkata: Slight decrease in visitor count.
- So, the **only** city that saw an increase in visitor count from 2009 to 2023 is Bangalore.

Conclusion for Blank 1: **Bangalore.**

Blank 2:

Between 2009 and 2023, the visitor count to traditional libraries in Bangalore saw an increase of approximately _____ percent, rounded to the nearest 10 percent.

Here, we filled in the answer from part 1. And now, we only need to focus on the percent increase that Bangalore saw.

The increase is approximately _____ percent, rounded to the nearest 10 percent.

- Observing the bars for Bangalore:
 - In 2009, the visitor count was around 8,000.
 - In 2023, the visitor count was slightly above the midpoint of 8,000 and 10,000, which is above 9,000. Let's estimate this to be around 9,500.
- Calculating the percentage increase: $\{(9,500 - 8,000) / (8000)\} \times 100$
 - $= (1500 / 8000) \times 100$
 - $= (15 / 80) \times 100$
 - $= (3 / 16) \times 100$

- Since we want the answer to the nearest 10%, we are free to approximate.
 - $\approx (3 / 15) \times 100$
 - $\approx 20\%$

Conclusion for Blank 2: **20 percent**

CONCLUSION: Between 2009 and 2023, the visitor count to traditional libraries in **Bangalore** saw an increase of approximately **20** percent, rounded to the nearest 10 percent.