Study the following table and answer the questions.

Number of Candidates Appeared and Qualified in a Competitive Examination from Different States Over the Years.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | State | Year | | | | | | | | | | | 1997 | | 1998 | | 1999 | | 2000 | | 2001 | | | App. | Qual. | App. | Qual. | App. | Qual. | App. | Qual. | App. | Qual. | | A | 5200 | 720 | 8500 | 980 | 7400 | 850 | 6800 | 775 | 9500 | 1125 | | B | 7500 | 840 | 9200 | 1050 | 8450 | 920 | 9200 | 980 | 8800 | 1020 | | C | 6400 | 780 | 8800 | 1020 | 7800 | 890 | 8750 | 1010 | 9750 | 1250 | | D | 8100 | 950 | 9500 | 1240 | 8700 | 980 | 9700 | 1200 | 8900 | 1000 | | E | 7800 | 870 | 7600 | 940 | 9800 | 1350 | 7600 | 945 | 7990 | 885 | |

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| 1. | Total number of candidates qualified from all the states together in 2000 is approximately what percentage of the total number of candidates qualified from all the states together in 1998? |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | 73% | [B.](javascript:%20void%200;) | 87% | | [C.](javascript:%20void%200;) | 76.92% | [D.](javascript:%20void%200;) | 84% |   **Answer:** Option **C**  **Explanation:**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Required percentage | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | = | [ | (775+980+1010+1200+945) | x 100 | ] | % | | (980 + 1050 + 1020 + 1240 + 940) | | |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | = | [ | 4023 | x 100 | ] | % | | 5230 | | |  | = 76.92% | |

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| 2. | What is the average candidates who appeared from State D during the given years? |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | 8700 | [B.](javascript:%20void%200;) | 8960 | | [C.](javascript:%20void%200;) | 8980 | [D.](javascript:%20void%200;) | 8580 |   **Answer:** Option **C**  **Explanation:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Required average | |  |  | | --- | --- | | = | 8100 + 9500 + 8700 + 9700 + 8900 | | 5 | | |  | |  |  | | --- | --- | | = | 44900 | | 5 | | |  | = 8980. | |

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| 3. | In which of the given years the number of candidates appeared from State C has minimum percentage of qualified candidates? |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | 1997 | [B.](javascript:%20void%200;) | 1998 | | [C.](javascript:%20void%200;) | 1999 | [D.](javascript:%20void%200;) | 2001 |   **Answer:** Option **C**  **Explanation:**  The percentages of candidates qualified to candidates appeared from State C during different years are:   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | For 1997 | ( | 780 | x 100 | ) | % = 12.19%. | | 6400 |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | For 1998 | ( | 1020 | x 100 | ) | % = 11.59%. | | 8800 |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | For 1999 | ( | 890 | x 100 | ) | % = 11.41%. | | 7800 |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | For 2000 | ( | 1010 | x 100 | ) | % = 11.54%. | | 8750 |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | For 2001 | ( | 1250 | x 100 | ) | % = 12.82%. | | 9750 |   ThereforeMinimum percentage is for the year 1999. |

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| 4. | What is the percentage of candidates qualified from State B for all the years together, over the candidates appeared from State B during all the years together? |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | 12.36% | [B.](javascript:%20void%200;) | 12.16% | | [C.](javascript:%20void%200;) | 11.47% | [D.](javascript:%20void%200;) | 11.15% |   **Answer:** Option **D**  **Explanation:**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Required percentage | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | = | [ | (840 + 1050 + 920 + 980 + 1020) | x 100 | ] | % | | (7500 + 9200 + 8450 + 9200 + 8800) | | |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | = | [ | 4810 | x 100 | ] | % | | 43150 | | |  | = 11.15% | |

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| 5. | The percentage of total number of qualified candidates to the total number of appeared candidates among all the five states in 1998 is? |
| |  |  |  |  | | --- | --- | --- | --- | | [A.](javascript:%20void%200;) | 11.49% | [B.](javascript:%20void%200;) | 11.99% | | [C.](javascript:%20void%200;) | 12.67% | [D.](javascript:%20void%200;) | 14.57% |   **Answer:** Option **B**  **Explanation:**   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Required percentage | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | = | [ | (980+1050+1020+1240+940) | x 100 | ] | % | | (8500+9200+8800+9500+7600) | | |  | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | = | [ | 5230 | x 100 | ] | % | | 43600 | | |  | = 11.99%. | |