**Test Review : View answers and explanation for this test.**

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| 1. | A 6% stock yields 8%. The market value of the stock is: |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | Rs. 48 | | |  | B. | |  | | --- | | Rs. 75 | | |  | C. | |  | | --- | | Rs. 96 | | |  | D. | |  | | --- | | Rs. 133.33 | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **B**  Explanation:  For an income of Rs. 8, investment = Rs. 100.   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | For an income of Rs. 6, investment = Rs. | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 100 | x 6 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = Rs. 75. | | 8 |   https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Market value of Rs. 100 stock = Rs. 75.  Learn more problems on : [Stocks and Shares](https://www.indiabix.com/aptitude/stocks-and-shares/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/stocks-and-shares/discussion-661) |

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| 2. | A man rows to a place 48 km distant and come back in 14 hours. He finds that he can row 4 km with the stream in the same time as 3 km against the stream. The rate of the stream is: |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 1 km/hr | | |  | B. | |  | | --- | | 1.5 km/hr | | |  | C. | |  | | --- | | 2 km/hr | | |  | D. | |  | | --- | | 2.5 km/hr | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **A**  Explanation:  Suppose he move 4 km downstream in *x* hours. Then,   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Speed downstream = | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 4 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | km/hr. | | *x* |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | Speed upstream = | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 3 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | km/hr. | | *x* |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif | 48 | + | 48 | = 14 or *x* = | 1 | . | | (4/*x*) | (3/*x*) | 2 |   So, Speed downstream = 8 km/hr, Speed upstream = 6 km/hr.   |  |  |  | | --- | --- | --- | | Rate of the stream = | 1 | (8 - 6) km/hr = 1 km/hr. | | 2 |   Learn more problems on : [Boats and Streams](https://www.indiabix.com/aptitude/boats-and-streams/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/boats-and-streams/discussion-490) |

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| **Direction (for Q.Nos. 3 - 5):**  Find out the wrong number in the series. | |
| 3. | 3, 7, 15, 39, 63, 127, 255, 511 |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 7 | | |  | B. | |  | | --- | | 15 | | |  | C. | |  | | --- | | 39 | | |  | D. | |  | | --- | | 63 | | |  | E. | |  | | --- | | 127 | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **C**  Explanation:  Go on multiplying 2 and adding 1 to get the next number.  So, 39 is wrong.  Learn more problems on : [Odd Man Out and Series](https://www.indiabix.com/aptitude/odd-man-out-and-series/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/odd-man-out-and-series/discussion-792) |

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| 4. | 1, 1, 2, 6, 24, 96, 720 |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 720 | | |  | B. | |  | | --- | | 96 | | |  | C. | |  | | --- | | 24 | | |  | D. | |  | | --- | | 6 | | |  | E. | |  | | --- | | 2 | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **B**  Explanation:  Go on multiplying with 1, 2, 3, 4, 5, 6 to get next number.  So, 96 is wrong.  Learn more problems on : [Odd Man Out and Series](https://www.indiabix.com/aptitude/odd-man-out-and-series/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/odd-man-out-and-series/discussion-784) |

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| 5. | 1, 3, 10, 21, 64, 129, 356, 777 |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 10 | | |  | B. | |  | | --- | | 21 | | |  | C. | |  | | --- | | 64 | | |  | D. | |  | | --- | | 129 | | |  | E. | |  | | --- | | 356 | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **E**  Explanation:  A x 2 + 1, B x 3 + 1, C x 2 + 1, D x 3 + 1 and so on.  So, 356 is wrong.  Learn more problems on : [Odd Man Out and Series](https://www.indiabix.com/aptitude/odd-man-out-and-series/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/odd-man-out-and-series/discussion-793) |

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| 6. | A and B can together finish a work 30 days. They worked together for 20 days and then B left. After another 20 days, A finished the remaining work. In how many days A alone can finish the work? |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 40 | | |  | B. | |  | | --- | | 50 | | |  | C. | |  | | --- | | 54 | | |  | D. | |  | | --- | | 60 | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **D**  Explanation:   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | (A + B)'s 20 day's work = | ( | 1 | x 20 | ) | = | 2 | . | | 30 | 3 |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Remaining work = | ( | 1 - | 2 | ) | = | 1 | . | | 3 | 3 |  |  |  |  | | --- | --- | --- | | Now, | 1 | work is done by A in 20 days. | | 3 |   Therefore, the whole work will be done by A in (20 x 3) = 60 days.  Learn more problems on : [Time and Work](https://www.indiabix.com/aptitude/time-and-work/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/time-and-work/discussion-826) |

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| **Direction (for Q.No. 7):**  Each of the questions given below consists of a statement and / or a question and two statements numbered I and II given below it. You have to decide whether the data provided in the statement(s) is / are sufficient to answer the given question. Read the both statements and   * Give answer (A) if the data in Statement I alone are sufficient to answer the question, while the data in Statement II alone are not sufficient to answer the question. * Give answer (B) if the data in Statement II alone are sufficient to answer the question, while the data in Statement I alone are not sufficient to answer the question. * Give answer (C) if the data either in Statement I or in Statement II alone are sufficient to answer the question. * Give answer (D) if the data even in both Statements I and II together are not sufficient to answer the question. * Give answer(E) if the data in both Statements I and II together are necessary to answer the question. | |
| 7. | |  |  | | --- | --- | | The average age of P, Q, R and S is 30 years. How old is R? | | | I. | The sum of ages of P and R is 60 years. | | II. | S is 10 years younger than R. | |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | I alone sufficient while II alone not sufficient to answer | | |  | B. | |  | | --- | | II alone sufficient while I alone not sufficient to answer | | |  | C. | |  | | --- | | Either I or II alone sufficient to answer | | |  | D. | |  | | --- | | Both I and II are not sufficient to answer | | |  | E. | |  | | --- | | Both I and II are necessary to answer | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **D**  Explanation:  P + Q + R + S = (30 x 4)   https://www.indiabix.com/_files/images/aptitude/1-sym-imp.gif   P + Q + R + S = 120 .... (i)   I. P + R = 60 .... (ii)  II. S = (R - 10) .... (iii)  From (i), (ii) and (iii), we cannot find R.  https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Correct answer is (D)  Learn more problems on : [Average](https://www.indiabix.com/aptitude/average/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/average/discussion-247) |

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| 8. | The banker's gain of a certain sum due 2 years hence at 10% per annum is Rs. 24. The present worth is: |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | Rs. 480 | | |  | B. | |  | | --- | | Rs. 520 | | |  | C. | |  | | --- | | Rs. 600 | | |  | D. | |  | | --- | | Rs. 960 | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **C**  Explanation:   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | T.D. = | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | B.G. x 100 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = Rs. | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 24 x 100 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = Rs. 120. | | Rate x Time | 10 x 2 |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif P.W. = | 100 x T.D. | = Rs. | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 100 x 120 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = Rs. 600. | | Rate x Time | 10 x 2 |   Learn more problems on : [Banker's Discount](https://www.indiabix.com/aptitude/bankers-discount/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/bankers-discount/discussion-722) |

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| 9. | The difference between simple interest and compound on Rs. 1200 for one year at 10% per annum reckoned half-yearly is: |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | Rs. 2.50 | | |  | B. | |  | | --- | | Rs. 3 | | |  | C. | |  | | --- | | Rs. 3.75 | | |  | D. | |  | | --- | | Rs. 4 | | |  | E. | |  | | --- | | None of these | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **B**  Explanation:   |  |  |  |  |  | | --- | --- | --- | --- | --- | | S.I. = Rs | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 1200 x 10 x 1 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = Rs. 120. | | 100 |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | C.I. = Rs. | https://www.indiabix.com/_files/images/aptitude/1-sym-obracket-h2.gif | 1200 x | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 1 + | 5 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | 2 | - 1200 | https://www.indiabix.com/_files/images/aptitude/1-sym-cbracket-h2.gif | = Rs. 123. | | 100 |   https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Difference = Rs. (123 - 120) = Rs. 3.  Learn more problems on : [Compound Interest](https://www.indiabix.com/aptitude/compound-interest/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/compound-interest/discussion-535) |

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| 10. | Simple interest on a certain sum of money for 3 years at 8% per annum is half the compound interest on Rs. 4000 for 2 years at 10% per annum. The sum placed on simple interest is: |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | Rs. 1550 | | |  | B. | |  | | --- | | Rs. 1650 | | |  | C. | |  | | --- | | Rs. 1750 | | |  | D. | |  | | --- | | Rs. 2000 | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **C**  Explanation:   |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | C.I. | |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | = Rs. | https://www.indiabix.com/_files/images/aptitude/1-sym-obracket-h2.gif | 4000 x | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 1 + | 10 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | 2 | - 4000 | https://www.indiabix.com/_files/images/aptitude/1-sym-cbracket-h2.gif | | 100 | | |  | |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | = Rs. | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 4000 x | 11 | x | 11 | - 4000 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | | 10 | 10 | | |  | = Rs. 840. |  |  |  |  |  |  | | --- | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Sum = Rs. | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 420 x 100 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = Rs. 1750. | | 3 x 8 |   Learn more problems on : [Compound Interest](https://www.indiabix.com/aptitude/compound-interest/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/compound-interest/discussion-539) |

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| 11. | The sum of two number is 25 and their difference is 13. Find their product. |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 104 | | |  | B. | |  | | --- | | 114 | | |  | C. | |  | | --- | | 315 | | |  | D. | |  | | --- | | 325 | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **B**  Explanation:  Let the numbers be *x* and *y*.  Then, *x* + *y* = 25 and *x* - *y* = 13.  4*xy* = (*x* + *y*)2 - (*x*- *y*)2     = (25)2 - (13)2     = (625 - 169)     = 456  https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif *xy* = 114.  Learn more problems on : [Problems on Numbers](https://www.indiabix.com/aptitude/problems-on-numbers/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/problems-on-numbers/discussion-253) |

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| 12. | The cost price of 20 articles is the same as the selling price of *x* articles. If the profit is 25%, then the value of *x* is: |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 15 | | |  | B. | |  | | --- | | 16 | | |  | C. | |  | | --- | | 18 | | |  | D. | |  | | --- | | 25 | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **B**  Explanation:  Let C.P. of each article be Re. 1 C.P. of *x* articles = Rs. *x*.  S.P. of *x* articles = Rs. 20.  Profit = Rs. (20 - *x*).   |  |  |  |  |  | | --- | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 20 - *x* | x 100 = 25 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | | *x* |   https://www.indiabix.com/_files/images/aptitude/1-sym-imp.gif 2000 - 100*x* = 25*x*  125*x* = 2000  https://www.indiabix.com/_files/images/aptitude/1-sym-imp.gif *x* = 16.  Learn more problems on : [Profit and Loss](https://www.indiabix.com/aptitude/profit-and-loss/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/profit-and-loss/discussion-334) |

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| **Direction (for Q.No. 13):**  Each of the questions given below consists of a question followed by three statements. You have to study the question and the statements and decide which of the statement(s) is/are necessary to answer the question. | |
| 13. | |  |  | | --- | --- | | What is Ravi's present age? | | | I. | The present age of Ravi is half of that of his father. | | II. | After 5 years, the ratio of Ravi's age to that of his father's age will be 6 : 11. | | III. | Ravi is 5 years younger than his brother. | |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | I and II only | | |  | B. | |  | | --- | | II and III only | | |  | C. | |  | | --- | | I and III only | | |  | D. | |  | | --- | | All I, II and III | | |  | E. | |  | | --- | | Even with all the three statements answer cannot be determined. | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **A**  Explanation:    I. Let Ravi's present age be *x* years. Then, his father's present age = 2*x* years.   |  |  |  |  | | --- | --- | --- | --- | | II. After 5 years, | Ravi's age | = | 6 | | Father's age | 11 |   III. Ravi is younger than his brother.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | From I and II, we get | *x* + 5 | = | 6 | .   This gives *x*, the answer. | | 2*x* + 5 | 11 |   Thus, I and II together give the answer. Clearly, III is redundant.  https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Correct answer is (A).  Learn more problems on : [Problems on Ages](https://www.indiabix.com/aptitude/problems-on-ages/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/problems-on-ages/discussion-291) |

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| **Direction (for Q.No. 14):**  Insert the missing number. | |
| 14. | 2, 6, 12, 20, 30, 42, 56, (....) |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 61 | | |  | B. | |  | | --- | | 64 | | |  | C. | |  | | --- | | 72 | | |  | D. | |  | | --- | | 70 | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **C**  Explanation:  The pattern is 1 x 2, 2 x 3, 3 x 4, 4 x 5, 5 x 6, 6 x 7, 7 x 8.  So, the next number is 8 x 9 = 72.  Learn more problems on : [Odd Man Out and Series](https://www.indiabix.com/aptitude/odd-man-out-and-series/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/odd-man-out-and-series/discussion-776) |

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| 15. | The last day of a century cannot be |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | Monday | | |  | B. | |  | | --- | | Wednesday | | |  | C. | |  | | --- | | Tuesday | | |  | D. | |  | | --- | | Friday | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **C**  Explanation:  100 years contain 5 odd days.  https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Last day of 1st century is Friday.  200 years contain (5 x 2) https://www.indiabix.com/_files/images/aptitude/1-sym-deq.gif 3 odd days.  https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Last day of 2nd century is Wednesday.  300 years contain (5 x 3) = 15 https://www.indiabix.com/_files/images/aptitude/1-sym-deq.gif 1 odd day.  https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Last day of 3rd century is Monday.  400 years contain 0 odd day.  https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Last day of 4th century is Sunday.  This cycle is repeated.  https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Last day of a century cannot be Tuesday or Thursday or Saturday.  Learn more problems on : [Calendar](https://www.indiabix.com/aptitude/calendar/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/calendar/discussion-635) |

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| 16. | What was the day of the week on 28th May, 2006? |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | Thursday | | |  | B. | |  | | --- | | Friday | | |  | C. | |  | | --- | | Saturday | | |  | D. | |  | | --- | | Sunday | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **D**  Explanation:  28 May, 2006 = (2005 years + Period from 1.1.2006 to 28.5.2006)  Odd days in 1600 years = 0  Odd days in 400 years = 0  5 years = (4 ordinary years + 1 leap year) = (4 x 1 + 1 x 2) https://www.indiabix.com/_files/images/aptitude/1-sym-deq.gif 6 odd days  Jan. Feb. March April May  (31 + 28 + 31 + 30 + 28 ) = 148 days  https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif 148 days = (21 weeks + 1 day) https://www.indiabix.com/_files/images/aptitude/1-sym-deq.gif 1 odd day.  Total number of odd days = (0 + 0 + 6 + 1) = 7 https://www.indiabix.com/_files/images/aptitude/1-sym-deq.gif 0 odd day.  Given day is Sunday.  Learn more problems on : [Calendar](https://www.indiabix.com/aptitude/calendar/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/calendar/discussion-632) |

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| 17. | Two dice are thrown simultaneously. What is the probability of getting two numbers whose product is even? |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | A. | |  |  |  | | --- | --- | --- | | |  | | --- | | 1 | | 2 | | | |  | B. | |  |  |  | | --- | --- | --- | | |  | | --- | | 3 | | 4 | | | |  | C. | |  |  |  | | --- | --- | --- | | |  | | --- | | 3 | | 8 | | | |  | D. | |  |  |  | | --- | --- | --- | | |  | | --- | | 5 | | 16 | | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **B**  Explanation:  In a simultaneous throw of two dice, we have *n*(S) = (6 x 6) = 36.   |  |  | | --- | --- | | Then, E | = {(1, 2), (1, 4), (1, 6), (2, 1), (2, 2), (2, 3), (2, 4), (2, 5), (2, 6), (3, 2), (3, 4),      (3, 6), (4, 1), (4, 2), (4, 3), (4, 4), (4, 5), (4, 6), (5, 2), (5, 4), (5, 6), (6, 1),      (6, 2), (6, 3), (6, 4), (6, 5), (6, 6)} |   https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif *n*(E) = 27.   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif P(E) = | *n*(E) | = | 27 | = | 3 | . | | *n*(S) | 36 | 4 |   Learn more problems on : [Probability](https://www.indiabix.com/aptitude/probability/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/probability/discussion-691) |

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| 18. | A person's present age is two-fifth of the age of his mother. After 8 years, he will be one-half of the age of his mother. How old is the mother at present? |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 32 years | | |  | B. | |  | | --- | | 36 years | | |  | C. | |  | | --- | | 40 years | | |  | D. | |  | | --- | | 48 years | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **C**  Explanation:  Let the mother's present age be *x* years.   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Then, the person's present age = | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 2 | *x* | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | years. | | *5* |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 2 | *x* + 8 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = | 1 | (*x* + 8) | | 5 | 2 |   https://www.indiabix.com/_files/images/aptitude/1-sym-imp.gif 2(2*x* + 40) = 5(*x* + 8)  https://www.indiabix.com/_files/images/aptitude/1-sym-imp.gif *x* = 40.  Learn more problems on : [Problems on Ages](https://www.indiabix.com/aptitude/problems-on-ages/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/problems-on-ages/discussion-278) |

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| 19. | At present, the ratio between the ages of Arun and Deepak is 4 : 3. After 6 years, Arun's age will be 26 years. What is the age of Deepak at present ? |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 12 years | | |  | B. | |  | | --- | | 15 years | | |  | C. | |  | | --- | | 19 and half | | |  | D. | |  | | --- | | 21 years | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **B**  Explanation:  Let the present ages of Arun and Deepak be 4*x* years and 3*x* years respectively. Then,  4*x* + 6 = 26    https://www.indiabix.com/_files/images/aptitude/1-sym-bim.gif    4*x* = 20  *x* = 5.  https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Deepak's age = 3*x* = 15 years.  Learn more problems on : [Problems on Ages](https://www.indiabix.com/aptitude/problems-on-ages/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/problems-on-ages/discussion-272) |

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| 20. | A watch which gains uniformly is 2 minutes low at noon on Monday and is 4 min. 48 sec fast at 2 p.m. on the following Monday. When was it correct? |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 2 p.m. on Tuesday | | |  | B. | |  | | --- | | 2 p.m. on Wednesday | | |  | C. | |  | | --- | | 3 p.m. on Thursday | | |  | D. | |  | | --- | | 1 p.m. on Friday | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **B**  Explanation:  Time from 12 p.m. on Monday to 2 p.m. on the following Monday = 7 days 2 hours = 170 hours.   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif The watch gains | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 2 + 4 | 4 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gifmin. | or | 34 | min. in 170 hrs. | | 5 | 5 |  |  |  |  | | --- | --- | --- | | Now, | 34 | min. are gained in 170 hrs. | | 5 |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif 2 min. are gained in | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 170 x | 5 | x 2 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gifhrs | = 50 hrs. | | 34 |   https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Watch is correct 2 days 2 hrs. after 12 p.m. on Monday *i.e.,* it will be correct at 2 p.m. on Wednesday.  Learn more problems on : [Clock](https://www.indiabix.com/aptitude/clock/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/clock/discussion-657) |