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

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| 1. | A fires 5 shots to B's 3 but A kills only once in 3 shots while B kills once in 2 shots. When B has missed 27 times, A has killed: |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 30 birds | | |  | B. | |  | | --- | | 60 birds | | |  | C. | |  | | --- | | 72 birds | | |  | D. | |  | | --- | | 90 birds | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **A**  Explanation:  Let the total number of shots be *x*. Then,   |  |  |  | | --- | --- | --- | | Shots fired by A = | 5 | *x* | | 8 |  |  |  |  | | --- | --- | --- | | Shots fired by B = | 3 | *x* | | 8 |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Killing shots by A = | 1 | of | 5 | *x* | = | 5 | *x* | | 3 | 8 | 24 |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Shots missed by B = | 1 | of | 3 | *x* | = | 3 | *x* | | 2 | 8 | 16 |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif | 3*x* | = 27 or *x* = | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 27 x 16 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = 144. | | 16 | 3 |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | Birds killed by A = | 5*x* | = | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 5 | x 144 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = 30. | | 24 | 24 |   Learn more problems on : [Simplification](https://www.indiabix.com/aptitude/simplification/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/simplification/discussion-204) |

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| 2. | Six years ago, the ratio of the ages of Kunal and Sagar was 6 : 5. Four years hence, the ratio of their ages will be 11 : 10. What is Sagar's age at present? |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 16 years | | |  | B. | |  | | --- | | 18 years | | |  | C. | |  | | --- | | 20 years | | |  | D. | |  | | --- | | Cannot be determined | | |  | E. | |  | | --- | | None of these | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **A**  Explanation:  Let the ages of Kunal and Sagar 6 years ago be 6*x* and 5*x* years respectively.   |  |  |  |  | | --- | --- | --- | --- | | Then, | (6*x* + 6) + 4 | = | 11 | | (5*x* + 6) + 4 | 10 |   https://www.indiabix.com/_files/images/aptitude/1-sym-imp.gif 10(6*x* + 10) = 11(5*x* + 10)  https://www.indiabix.com/_files/images/aptitude/1-sym-imp.gif 5*x* = 10  https://www.indiabix.com/_files/images/aptitude/1-sym-imp.gif *x* = 2.  https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Sagar's present age = (5*x* + 6) = 16 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-274) |

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| 3. | Q is as much younger than R as he is older than T. If the sum of the ages of R and T is 50 years, what is definitely the difference between R and Q's age? |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 1 year | | |  | B. | |  | | --- | | 2 years | | |  | C. | |  | | --- | | 25 years | | |  | D. | |  | | --- | | Data inadequate | | |  | E. | |  | | --- | | None of these | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **D**  Explanation:  **Given that:**  1. The difference of age b/w R and Q = The difference of age b/w Q and T.  2. Sum of age of R and T is 50 i.e. (R + T) = 50.  **Question: R - Q = ?.**  Explanation:  R - Q = Q - T  (R + T) = 2Q  Now given that, (R + T) = 50  So, 50 = 2Q and therefore Q = 25.  Question is (R - Q) = ?  Here we know the value(age) of Q (25), but we don't know the age of R.  Therefore, (R-Q) cannot be determined.  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-281) |

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| 4. | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | 1 | + | 1 | + | 1 | = ? | | 1 + *x*(*b*-*a*) + *x*(*c*-*a*) | 1 + *x*(*a*-*b*) + *x*(*c*-*b*) | 1 + *x*(*b*-*c*) + *x*(*a*-*c*) | |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 0 | | |  | B. | |  | | --- | | 1 | | |  | C. | |  | | --- | | *xa*-*b*-*c* | | |  | D. | |  | | --- | | None of these | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **B**  Explanation:   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Given Exp. = | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 1 | + | 1 | + | 1 | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h2.gif | 1 + | *xb* | + | *xc* | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h2.gif | | *xa* | *xa* | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h2.gif | 1 + | *xa* | + | *xc* | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h2.gif | | *xb* | *xb* | | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h2.gif | 1 + | *xb* | + | *xa* | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h2.gif | | *xc* | *xc* | | | |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | = | *xa* | + | *xb* | + | *xc* | | (*xa* + *xb* + *xc*) | (*xa* + *xb* + *xc*) | (*xa* + *xb* + *xc*) |  |  |  | | --- | --- | | = | (*xa* + *xb* + *xc*) | | (*xa* + *xb* + *xc*) |      = 1.  Learn more problems on : [Surds and Indices](https://www.indiabix.com/aptitude/surds-and-indices/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/surds-and-indices/discussion-306) |

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| 5. | |  |  |  |  | | --- | --- | --- | --- | | 1 | + | 1 | = ? | | 1 + *a*(*n*-*m*) | 1 + *a*(*m*-*n*) | |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 0 | | |  | B. | |  |  |  | | --- | --- | --- | | |  | | --- | | 1 | | 2 | | | |  | C. | |  | | --- | | 1 | | |  | D. | |  | | --- | | *am*+*n* | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **C**  Explanation:   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | 1 | + | 1 | = | |  |  |  | | --- | --- | --- | | 1 | + | 1 | | |  |  |  |  | | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h2.gif | 1 + | *an* | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h2.gif | | *am* | | |  |  |  |  | | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h2.gif | 1 + | *am* | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h2.gif | | *an* | | | | 1 + *a*(*n*-*m*) | 1 + *a*(*m*-*n*) |  |  |  |  |  | | --- | --- | --- | --- | | = | *am* | + | *an* | | (*am* + *an*) | (*am* + *an*) |  |  |  | | --- | --- | | = | (*am* + *an*) | | (*am* + *an*) |      = 1.  Learn more problems on : [Surds and Indices](https://www.indiabix.com/aptitude/surds-and-indices/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/surds-and-indices/discussion-305) |

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| 6. | Simran started a software business by investing Rs. 50,000. After six months, Nanda joined her with a capital of Rs. 80,000. After 3 years, they earned a profit of Rs. 24,500. What was Simran's share in the profit? |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | Rs. 9,423 | | |  | B. | |  | | --- | | Rs. 10,250 | | |  | C. | |  | | --- | | Rs. 12,500 | | |  | D. | |  | | --- | | Rs. 10,500 | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **D**  Explanation:  Simran : Nanda = (50000 x 36) : (80000 x 30) = 3 : 4.   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Simran's share = Rs. | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 24500 x | 3 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = Rs. 10,500. | | 7 |   Learn more problems on : [Partnership](https://www.indiabix.com/aptitude/partnership/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/partnership/discussion-361) |

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| 7. | A, B and C can do a piece of work in 20, 30 and 60 days respectively. In how many days can A do the work if he is assisted by B and C on every third day? |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 12 days | | |  | B. | |  | | --- | | 15 days | | |  | C. | |  | | --- | | 16 days | | |  | D. | |  | | --- | | 18 days | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **B**  Explanation:   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | A's 2 day's work = | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 1 | x 2 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = | 1 | . | | 20 | 10 |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | (A + B + C)'s 1 day's work = | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 1 | + | 1 | + | 1 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = | 6 | = | 1 | . | | 20 | 30 | 60 | 60 | 10 |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Work done in 3 days = | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 1 | + | 1 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = | 1 | . | | 10 | 10 | 5 |  |  |  |  | | --- | --- | --- | | Now, | 1 | work is done in 3 days. | | 5 |   https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Whole work will be done in (3 x 5) = 15 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-406) |

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| 8. | Robert is travelling on his cycle and has calculated to reach point A at 2 P.M. if he travels at 10 kmph, he will reach there at 12 noon if he travels at 15 kmph. At what speed must he travel to reach A at 1 P.M.? |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 8 kmph | | |  | B. | |  | | --- | | 11 kmph | | |  | C. | |  | | --- | | 12 kmph | | |  | D. | |  | | --- | | 14 kmph | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **C**  Explanation:  Let the distance travelled by *x* km.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Then, | *x* | - | *x* | = 2 | | 10 | 15 |   https://www.indiabix.com/_files/images/aptitude/1-sym-imp.gif 3*x* - 2*x* = 60  https://www.indiabix.com/_files/images/aptitude/1-sym-imp.gif *x* = 60 km.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Time taken to travel 60 km at 10 km/hr = | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 60 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gifhrs | = 6 hrs. | | 10 |   So, Robert started 6 hours before 2 P.M. *i.e.,* at 8 A.M.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Required speed = | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 60 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gifkmph. | = 12 kmph. | | 5 |   Learn more problems on : [Time and Distance](https://www.indiabix.com/aptitude/time-and-distance/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/time-and-distance/discussion-441) |

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| 9. | 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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| 10. | In what ratio must a grocer mix two varieties of pulses costing Rs. 15 and Rs. 20 per kg respectively so as to get a mixture worth Rs. 16.50 kg? |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 3 : 7 | | |  | B. | |  | | --- | | 5 : 7 | | |  | C. | |  | | --- | | 7 : 3 | | |  | D. | |  | | --- | | 7 : 5 | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **C**  Explanation:  By the rule of alligation:   |  |  |  | | --- | --- | --- | | Cost of 1 kg pulses of 1st kindCost of 1 kg pulses of 2nd kind | | | | Rs. 15 | Mean Price Rs. 16.50 | Rs. 20 | | 3.50 | 1.50 |   https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Required rate = 3.50 : 1.50 = 7 : 3.  Learn more problems on : [Alligation or Mixture](https://www.indiabix.com/aptitude/alligation-or-mixture/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/alligation-or-mixture/discussion-495) |

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| 11. | |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | If log | *a* | + | log | *b* | = log (*a* + *b*), then: | | *b* | *a* | |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | *a* + *b* = 1 | | |  | B. | |  | | --- | | *a* - *b* = 1 | | |  | C. | |  | | --- | | *a* = *b* | | |  | D. | |  | | --- | | *a*2 - *b*2 = 1 | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **A**  Explanation:   |  |  |  |  |  | | --- | --- | --- | --- | --- | | log | *a* | + log | *b* | = log (*a* + *b*) | | *b* | *a* |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-imp.gif log (*a* + *b*) = log | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | *a* | x | *b* | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = log 1. | | *b* | *a* |   So, *a* + *b* = 1.  Learn more problems on : [Logarithm](https://www.indiabix.com/aptitude/logarithm/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/logarithm/discussion-560) |

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| 12. | In a race of 200 m, A can beat B by 31 m and C by 18 m. In a race of 350 m, C will beat B by: |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 22.75 m | | |  | B. | |  | | --- | | 25 m | | |  | C. | |  | | --- | | 19.5 m | | |  | D. | |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | 7 | 4 | m | | 7 | | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **B**  Explanation:  A : B = 200 : 169.  A : C = 200 : 182.   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | C | = | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | C | x | A | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 182 | x | 200 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = 182 : 169. | | B | A | B | 200 | 169 |   When C covers 182 m, B covers 169 m.   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | When C covers 350 m, B covers | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 169 | x 350 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gifm | = 325 m. | | 182 |   Therefore, C beats B by (350 - 325) m = 25 m.  Learn more problems on : [Races and Games](https://www.indiabix.com/aptitude/races-and-games/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/races-and-games/discussion-621) |

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| 13. | **If 6th March, 2005 is Monday,** what was the day of the week on 6th March, 2004? |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | Sunday | | |  | B. | |  | | --- | | Saturday | | |  | C. | |  | | --- | | Tuesday | | |  | D. | |  | | --- | | Wednesday | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **A**  Explanation:  The year 2004 is a leap year. So, it has 2 odd days.  But, Feb 2004 not included because we are calculating from March 2004 to March 2005. So it has 1 odd day only.  https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif The day on 6th March, 2005 will be 1 day beyond the day on 6th March, 2004.  Given that, 6th March, 2005 is Monday.  https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif 6th March, 2004 is Sunday (1 day before to 6th March, 2005).  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-628) |

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| 14. | An accurate clock shows 8 o'clock in the morning. Through how may degrees will the hour hand rotate when the clock shows 2 o'clock in the afternoon? |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 144° | | |  | B. | |  | | --- | | 150° | | |  | C. | |  | | --- | | 168° | | |  | D. | |  | | --- | | 180° | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **D**  Explanation:   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | Angle traced by the hour hand in 6 hours = | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 360 | x 6 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | ° | = 180°. | | 12 |   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-641) |

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| 15. | A clock is started at noon. By 10 minutes past 5, the hour hand has turned through: |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 145° | | |  | B. | |  | | --- | | 150° | | |  | C. | |  | | --- | | 155° | | |  | D. | |  | | --- | | 160° | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **C**  Explanation:  Angle traced by hour hand in 12 hrs = 360°.   |  |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | | Angle traced by hour hand in 5 hrs 10 min. *i.e.,* | 31 | hrs = | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 360 | x | 31 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | ° | = 155°. | | 6 | 12 | 6 |   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-640) |

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| 16. | The market value of a 10.5% stock, in which an income of Rs. 756 is derived by investing Rs. 9000, brokerage being https://www.indiabix.com/_files/images/aptitude/1-div-1by4.gif%, is: |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | Rs. 108.25 | | |  | B. | |  | | --- | | Rs. 112.20 | | |  | C. | |  | | --- | | Rs. 124.75 | | |  | D. | |  | | --- | | Rs. 125.25 | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **C**  Explanation:  For an income of Rs. 756, investment = Rs. 9000.   |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | For an income of Rs. | 21 | , investment = Rs. | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 9000 | x | 21 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = Rs. 125. | | 2 | 756 | 2 |   https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif For a Rs. 100 stock, investment = Rs. 125.   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Market value of Rs. 100 stock = Rs. | https://www.indiabix.com/_files/images/aptitude/1-sym-oparen-h1.gif | 125 - | 1 | https://www.indiabix.com/_files/images/aptitude/1-sym-cparen-h1.gif | = Rs. 124.75 | | 4 |   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-669) |

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| 17. | From a pack of 52 cards, two cards are drawn together at random. What is the probability of both the cards being kings? |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | A. | |  |  |  | | --- | --- | --- | | |  | | --- | | 1 | | 15 | | | |  | B. | |  |  |  | | --- | --- | --- | | |  | | --- | | 25 | | 57 | | | |  | C. | |  |  |  | | --- | --- | --- | | |  | | --- | | 35 | | 256 | | | |  | D. | |  |  |  | | --- | --- | --- | | |  | | --- | | 1 | | 221 | | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **D**  Explanation:  Let S be the sample space.   |  |  |  | | --- | --- | --- | | Then, *n*(S) = 52C2 = | (52 x 51) | = 1326. | | (2 x 1) |   Let E = event of getting 2 kings out of 4.   |  |  |  | | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif *n*(E) = 4C2 = | (4 x 3) | = 6. | | (2 x 1) |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif P(E) = | *n*(E) | = | 6 | = | 1 | . | | *n*(S) | 1326 | 221 |   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-696) |

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| 18. | One card is drawn at random from a pack of 52 cards. What is the probability that the card drawn is a face card (Jack, Queen and King only)? |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | A. | |  |  |  | | --- | --- | --- | | |  | | --- | | 1 | | 13 | | | |  | B. | |  |  |  | | --- | --- | --- | | |  | | --- | | 3 | | 13 | | | |  | C. | |  |  |  | | --- | --- | --- | | |  | | --- | | 1 | | 4 | | | |  | D. | |  |  |  | | --- | --- | --- | | |  | | --- | | 9 | | 52 | | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **B**  Explanation:  Clearly, there are 52 cards, out of which there are 12 face cards.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif P (getting a face card) = | 12 | = | 3 | . | | 52 | 13 |   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-694) |

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| 19. | The true discount on Rs. 2562 due 4 months hence is Rs. 122. The rate percent is: |
| |  |  |  |  | | --- | --- | --- | --- | |  | A. | |  | | --- | | 12% | | |  | B. | |  |  |  |  |  | | --- | --- | --- | --- | --- | | |  |  |  | | --- | --- | --- | | 13 | 1 | % | | 3 | | | |  | C. | |  | | --- | | 15% | | |  | D. | |  | | --- | | 14% | |   Your Answer: Option **(Not Answered)**  Correct Answer: Option **C**  Explanation:  P.W. = Rs. (2562 - 122) = Rs. 2440.  https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif S.I. on Rs. 2440 for 4 months is Rs. 122.   |  |  |  |  |  | | --- | --- | --- | --- | --- | | https://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Rate = | https://www.indiabix.com/_files/images/aptitude/1-sym-obracket-h3.gif | 100 x 122 | https://www.indiabix.com/_files/images/aptitude/1-sym-cbracket-h3.gif% | = 15%. | | |  |  | | --- | --- | | 2440 x | 1 | | 3 | |   Learn more problems on : [True Discount](https://www.indiabix.com/aptitude/true-discount/)  Discuss about this problem : [Discuss in Forum](https://www.indiabix.com/aptitude/true-discount/discussion-706) |

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| **Direction (for Q.No. 20):**  Find out the wrong number in the given sequence of numbers. | |
| 20. | 22, 33, 66, 99, 121, 279, 594 |
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