Practice Questions for Colanders

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| Question | It was Sunday on Jan 1, 2006. What was the day of the week Jan 1, 2010? |
| Option A | Sunday |
| Option B | Saturday |
| Option C | Friday |
| Option D | Wednesday |
| Answer | Option C |
| Explanation | On 31st December, 2005 it was Saturday.  Number of odd days from the year 2006 to the year 2009 = (1 + 1 + 2 + 1) = 5 days.  http://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif On 31st December 2009, it was Thursday.  Thus, on 1st Jan, 2010 it is Friday. |

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| Question | What was the day of the week on 28th May, 2006? |
| Option A | Thursday |
| Option B | Friday |
| Option C | Saturday |
| Option D | Sunday |
| 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) http://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  http://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif 148 days = (21 weeks + 1 day) http://www.indiabix.com/_files/images/aptitude/1-sym-deq.gif 1 odd day.  Total number of odd days = (0 + 0 + 6 + 1) = 7 http://www.indiabix.com/_files/images/aptitude/1-sym-deq.gif 0 odd day.  Given day is Sunday. |

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| Question | What was the day of the week on 17th June, 1998? |
| Option A | Monday |
| Option B | Wednesday |
| Option C | Sunday |
| Option D | Friday |
| Answer | Option B |
| Explanation | 17th June, 1998 = (1997 years + Period from 1.1.1998 to 17.6.1998)  Odd days in 1600 years = 0  Odd days in 300 years = (5 x 3) http://www.indiabix.com/_files/images/aptitude/1-sym-deq.gif 1  97 years has 24 leap years + 73 ordinary years.  Number of odd days in 97 years ( 24 x 2 + 73) = 121 = 2 odd days.  Jan. Feb. March April May June  (31 + 28 + 31 + 30 + 31 + 17) = 168 days  http://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif 168 days = 24 weeks = 0 odd day.  Total number of odd days = (0 + 1 + 2 + 0) = 3.  Given day is Wednesday. |

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| Question | What was the day of the week 15th August, 2010? |
| Option A | Sunday |
| Option B | Monday |
| Option C | Tuesday |
| Option D | Friday |
| Answer | Option A |
| Explanation | 15th August, 2010 = (2009 years + Period 1.1.2010 to 15.8.2010)  Odd days in 1600 years = 0  Odd days in 400 years = 0  9 years = (2 leap years + 7 ordinary years) = (2 x 2 + 7 x 1) = 11 odd days http://www.indiabix.com/_files/images/aptitude/1-sym-deq.gif 4 odd days.  Jan. Feb. March April May June July Aug.  (31 + 28 + 31 + 30 + 31 + 30 + 31 + 15) = 227 days  http://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif 227 days = (32 weeks + 3 days) http://www.indiabix.com/_files/images/aptitude/1-sym-deq.gif 3 odd days.  Total number of odd days = (0 + 0 + 4 + 3) = 7 http://www.indiabix.com/_files/images/aptitude/1-sym-deq.gif 0 odd days.  Given day is Sunday. |

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| Question | Today is Monday. After 61 days, it will be: |
| Option A | Wednesday |
| Option B | Saturday |
| Option C | Friday |
| Option D | Wednesday |
| Answer | Option B |
| Explanation | Each day of the week is repeated after 7 days.  So, after 63 days, it will be Monday.  http://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif After 61 days, it will be Saturday. |

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| Question | What is the number of odd days in a leap year |
| Option A | 1 |
| Option B | 2 |
| Option C | 3 |
| Option D | 4 |
| Answer | Option B |
| Explanation | A leap year has 366 days, dividing it by 7 gives reminder of 2 |

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| Question | Today is Wednesday what will be the day after 94 days? |
| Option A | Saturday |
| Option B | Tuesday |
| Option C | Wednesday |
| Option D | Saturday |
| Answer | Option A |
| Explanation | Every day of week repeated after 7 days, so by dividing by 7  It gives a reminder of 3  So 3 days after Wednesday is Saturday. |

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| Question | On what dates of April, 2001 did Wednesday fall? |
| Option A | 1st, 8th, 15th, 22nd, 29th |
| Option B | 2nd, 9th, 16th, 23rd, 30th |
| Option C | 3rd, 10th, 17th, 24th |
| Option D | 4th, 11th, 18th, 25th |
| Answer | Option **D** |
| Explanation | We shall find the day on 1st April, 2001.  1st April, 2001 = (2000 years + Period from 1.1.2001 to 1.4.2001)  Odd days in 1600 years = 0  Odd days in 400 years = 0  Jan. Feb. March April (31 + 28 + 31 + 1)     = 91 days http://www.indiabix.com/_files/images/aptitude/1-sym-deq.gif 0 odd days.  Total number of odd days = (0 + 0 + 0) = 0  On 1st April, 2001 it was Sunday.  In April, 2001 Wednesday falls on 4th, 11th, 18th and 25th |

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| Question | How many days are there in *x* weeks *x* days? |
| Option A | 7*x*2 |
| Option B | 8x |
| Option C | 14x |
| Option D | 7x |
| Answer | Option B |
| Explanation | *x* weeks *x* days = (7*x* + *x*) days = 8*x* days. |

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| Question | The last day of a century cannot be |
| Option A | Monday |
| Option B | Wednesday |
| Option C | Tuesday |
| Option D | Friday |
| Answer | Option C |
| Explanation | 100 years contain 5 odd days.  http://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Last day of 1st century is Friday.  200 years contain (5 x 2) http://www.indiabix.com/_files/images/aptitude/1-sym-deq.gif 3 odd days.  http://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Last day of 2nd century is Wednesday.  300 years contain (5 x 3) = 15 http://www.indiabix.com/_files/images/aptitude/1-sym-deq.gif 1 odd day.  http://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Last day of 3rd century is Monday.  400 years contain 0 odd day.  http://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Last day of 4th century is Sunday.  This cycle is repeated.  http://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif Last day of a century cannot be Tuesday or Thursday or Saturday. |

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| Question | On 8th Feb, 2005 it was Tuesday. What was the day of the week on 8th Feb, 2004? |
| Option A | Tuesday |
| Option B | Monday |
| Option C | Sunday |
| Option D | Wednesday |
| Answer | Option C |
| Explanation | The year 2004 is a leap year. It has 2 odd days.  http://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif The day on 8th Feb, 2004 is 2 days before the day on 8th Feb, 2005.  Hence, this day is Sunday. |

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| Question | Which of the following is not a leap year? |
| Option A | 400 |
| Option B | 500 |
| Option C | 800 |
| Option D | 1200 |
| Answer | Option B |
| Explanation | The century divisible by 400 is a leap year.  http://www.indiabix.com/_files/images/aptitude/1-sym-tfr.gif The year 500 is not a leap year. |

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| Question | January 1, 2008 is Tuesday. What day of the week lies on Jan 1, 2009? |
| Option A | Monday |
| Option B | Wednesday |
| Option C | Thursday |
| Option D | Friday |
| Answer | Option C |
| Explanation | The year 2008 is a leap year. So, it has 2 odd days.  1st day of the year 2008 is Tuesday (Given)  So, 1st day of the year 2009 is 2 days beyond Tuesday.  Hence, it will be Thursday. |

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| Question | January 1, 2007 was Monday. What day of the week lies on Jan. 1, 2008? |
| Option A | Monday |
| Option B | Tuesday |
| Option C | Wednesday |
| Option D | Sunday |
| Answer | Option B |
| Explanation | The year 2007 is an ordinary year. So, it has 1 odd day.  1st day of the year 2007 was Monday.  1st day of the year 2008 will be 1 day beyond Monday.  Hence, it will be Tuesday. |

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| Question | Find the day of the week on 25th december,1995? |
| Option A | Monday |
| Option B | Wednesday |
| Option C | Friday |
| Option D | Sunday |
| Answer | Option A |
| Explanation | 149/7 = 2 odd days  Thus required day will be Monday. |