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FOR MAH MCA CET 2025



Clock

Angle between hour and minute hand = Angle = $\left| \left(\frac{11}{2} \right) M - 30 H \right|$ 11 x to - 30x 10 2 55 - 300



10:10 1 J H M



Calendar

Ordinary Years



An ordinary year (also called a common year) is a year that has 365 days. This is the standard number of days in a year. Most years are ordinary years.



Calendar



500,

• Leap Years



A leap year, on the other hand, occurs every four years and has 366 days. The extra day is added to the month of February, making February 29 days long instead of the usual 28 days. The purpose of a leap year is to help synchronize the calendar year with the solar year, or the length of time it takes for Earth to orbit the sun, which is about 365.2422 days. year divisible 4/400

402

600

366 days.

How to Identify a Leap Year:

A year is a leap year if: It is divisible by 4, and It is not divisible by (100) unless It is also divisible by 400.



Odd Days



The number of days more than to complete a week is called odd days.

It is simply the remainder you get when you divide any given number of days by 7.

For e.g. How many odd days are there in 9 days?



Odd Days in a Year Iday.

• Ordinary Year (365 Days)

 $\frac{365}{7} = 52 / \text{Remainder} = 1$

• Leap Year (366 Days)



<u>366</u> = 52/Romainder = 2 7



Odd Days in Century Years

700

100

87

1

2200

- 100 Century = <u>5</u> Days
- 200 Century = <u>3</u> Days
- 300 Century = <u>1</u> Day
- 400 Century = 0 Day



Important Note for Days of Century

First Day: It cannot be Wednesday, Friday or Sunday

Last Day: It cannot be <u>Tuesday</u>, Thursday or Saturday



->1st Jan '17: --> Sunday. ->1st Jan '18: --> Monday.

If it was a Sunday on 1 January 2017, what was the day of the week on 31 December 2017? Sunday (a) Tuesday (b) Monday (c) Sunday (d) Friday





If it was a Friday on <u>1 January 2016</u>, what was the day of the week on 31 December 2016?

(a) Saturday
(b) Friday
(c) Monday
(d) Sunday

Saturday.





Find the mirror image of the clock when the time is 02:40

C. 09:25 D. 09:22

B. 10:22









If 29 January 2003 is a Wednesday, then what day of the week will be 26 February 2005?

(b) Sunday(c) Thursday(d) Friday

Saturday 728 = 0 7

V OCT В E 2006 2005 2004 2003 2002 2001 2000 we The Mon Sat Thur . wed (m) If 18 October 2006) was Wednesday, then what was the day of the week on 17 October 2000? Tuesday *leenesda*v (c) Monday (d) Sunday



 $\frac{11}{2}M - 30H = \frac{11}{2}\chi_{32}^{32} - \frac{30\chi_{10}}{2}$ 65 - 300

Find the angle between the hands of the clock when the time is 10:30. A. 1600 B. 1200 C. 1800 135



Check which of the following years are leap years. A. 1800 $\leftarrow 40^{\circ}$ B. 1345 A C. 1678 $\leftarrow 40^{\circ}$ C. 1678 $\leftarrow 40^{\circ}$ D None of these $\frac{1678}{4} = 41$













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