

CH7 – TIME GOES ON

TOPIC: LEAP YEAR

TIME ELAPSED

MATHS COPY 1

DATE: 09/11/2021

WS-76

1) Convert 78 months into years and months.

Ans.: $78 \div 12 = 6$ years 6 months.

2) Convert 60 weeks into years and weeks.

Ans.: $60 \div 52 = 1$ year 8 weeks

3) Convert 900 days into months. Also convert the same into years and months.

Ans.: $900 \div 30 = 30$ months

30 months $\div 12 = 2$ years 6 months

4) Convert 5 months 20 days into days.

Ans.: $5 \times 30 + 20 = 150 + 20 = 170$ days

5) Convert 4 months 7 weeks 4 days into days.

Ans.: 4×30 days + 7×7 days + 4 days = 120 days + 49 days + 4 days = 173 days

LEAP YEAR

A normal year has 365 days.

A Leap Year has 366 days (the extra day is the 29th of February).

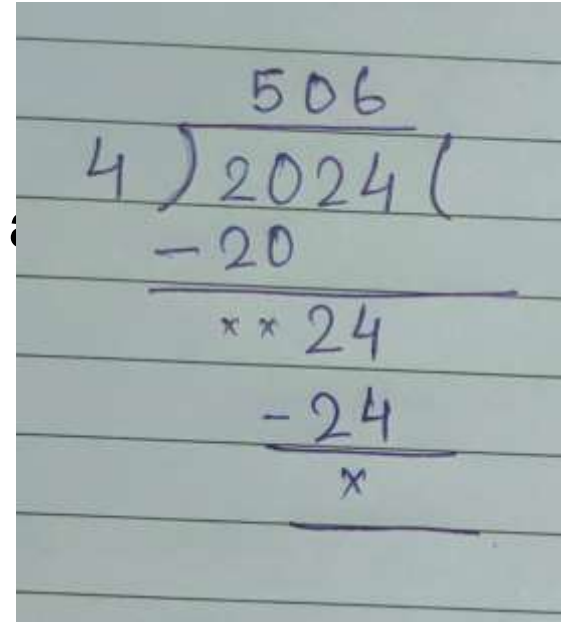
How to know if it is a Leap Year

*****Leap Years are any year that can be exactly divided by 4 that is there will be no remainder. (such as 2016, 2020, 2024, etc)**

*****if it can be exactly divided by 400 that is there will be no remainder(completely divisible), then it is leap year. (such as 2000, 2400,1200,1500etc)**

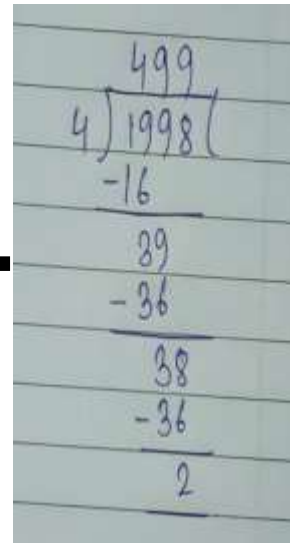
1) Check whether 2024 is a leap year or not ?

Ans.: 2024 is completely divisible by 4. So, 2024 is a leap year.


$$\begin{array}{r} 506 \\ 4 \overline{) 2024} \\ \underline{-20} \\ \times \times 24 \\ \underline{-24} \\ \times \end{array}$$

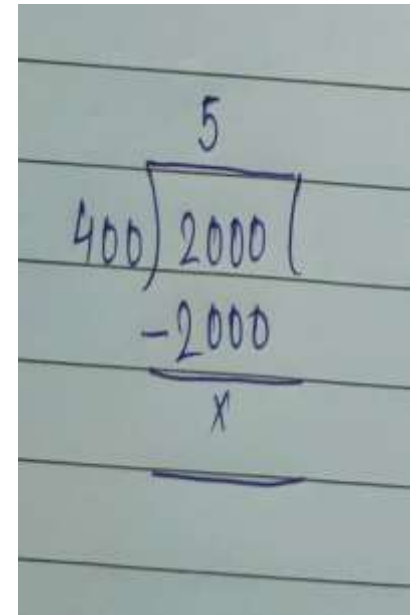
2) Check whether 1998 is a leap year or not ?

Ans.: 1998 is not divisible by 4. So, 1998 is not a leap year.


$$\begin{array}{r} 499 \\ 4 \overline{) 1998} \\ \underline{-16} \\ 89 \\ \underline{-36} \\ 88 \\ \underline{-36} \\ 2 \end{array}$$

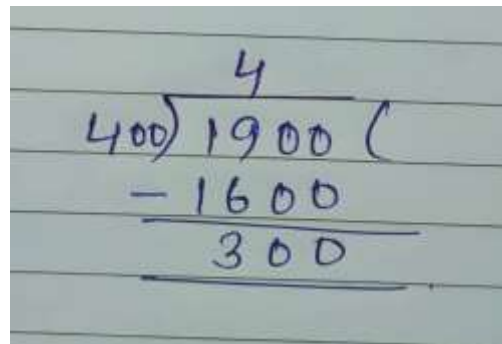
3) Check whether 2000 is a leap year or not ?

Ans.: 2000 is divisible by 400. So, 2000 is a leap year.


$$\begin{array}{r} 5 \\ 400 \overline{) 2000} \\ \underline{-2000} \\ \end{array}$$

4) Check whether 1900 is a leap year or not?

Ans.: 1900 is not divisible by 400 . So , 1900 is not a leap year.


$$\begin{array}{r} 4 \\ 400 \overline{) 1900} \\ \underline{-1600} \\ 300 \end{array}$$

TIME ELAPSED

1) Sara started her homework at 5:15 p.m. and finished it at 9:15 p.m. How much time did she take to finish her homework?

**Ans.: Sara started her homework at 5:15 PM
Sara finished her homework at 9:15 PM
Time she has taken = 9 : 15 PM
- 5:15 PM
= 4 hours**

Therefore , Sara takes 4 hours to finish her homework.

2) Adrian studies for 3 hours. He starts studying at 8:05 PM. At what time does he finish?

**Ans.: Adrian Started his study at 8:05 PM
he studied for 3 hours
total time taken by Adrian to finish his study = 8:05 PM
+ 3 :00 hours
= 11:05 PM**

Therefore , Adrian finishes his study at 11:05 PM

THANK YOU