How We Keep Ttme

Reformation of the Calendar by Pope Gregory XIII., 1582. -Time is that general idea we have of continuous or successive existence. It can be subdivided, and is measured by any regularly recurring phenomenon. The most customary way to measure time is by the motion of heavenly bodies. From the very earliest time the sum has been the chief among the heavenly bodies for these measure ments. The equal interval of time or unit of measurement, has been the solar day which is distinguished by the daily rotation of the earth on it axis or the alternation of light and

was based on the phases of the moon that is, the time it takes the moon t assume the same shape again in the sky, which is about thirty days. The moon, like the sun, was chosen to measure time, because next to the sun it is the most conspicuous of the heavenly bodies; but primarily because it is a regularly recurring phen omenon. The next step in the measurment of time was the division of the seasons into months and as the four seasons occurred at stated intervals, the period of time elapsing from one season to the return of the same was called the solar year.

The solar year is the period time it takes the earth to complete one revolution in its orbit around the sun, three hundred and sixty-five days; five hours, forty-eight minutes and forty-six seconds. At first sight it may seem an unnecessary insistence on details to take into consideration every second of the solar year. but it will be seen later that for an accurate, serviceable calendar the whole solar year must be accounted

There is also another year called the civil year, the year marked out i the calendars. This calendar year merely an arbitrary subdivision of the solar year into convenient division of days, months and seasons. If the length of the calendar year were always the same as that of the solar year, three hundred and sixty-five days, five hours, forty eight minutes, and forty-six seconds, no trouble would ever arise in reckoning time.

When the first important calendar was devised by some one, supposed to have been Romulus, the exact length of the solar year was not known Indeed it was not definitely known when Julius Caesar computed bi calendar, although the researches of Hipparchus three hundred years be fore had come within a few minutes of the exact length of the solar year It was, however, known with mathema tical exactness when Pope Gregory XIII. constructed the modern calen dar in 1582. So on account of lack of knowledge of the exact length of the solar year and the prac ical difficulties that arise in subdividing, a non-divisible quantity, like three hundred and sixty-five days, five hours, forty eight minutes and fortysix seconds, in such a way that the calendar year should always begin at the same time of the solar year, and also so that there should be an equtable distribution of the three hundred and six'y-five days and a fraction among the twelve months, we can readily see that a perfect calendar was an impossibility much before

The calendars of all European nations have been borrowed from that ot the Romans. As a matter of fact Russia up till this year used the calendar devised by Julius Caesar, Romulus is said to have divided the year into ten months, including in all three huadred and four days. It is not known how the remaining sixty one days and a fraction were disposed of. To ancient Roman year began with March, and contained some names, September, October, Novem ber, and December, of our own mouths. July and August were call ed Quintilis and Sextilis, their present appellations having been besto ed upon them in compliment to Julius Caesar and Augustus.

Numa, the first Roman king, added two months to the year, January and February. Lo 452 B C., the Decemvirs ordered the months to be made up of twenty nine and thirty days alternately, to correspond to the synodic revolutions of the moon. The civil year then contained three hundred and fifty-four days. One day was added to make the number odd which was considered more propitious. and the year consisted then of three hundred and fifty-five days. This differed from the solar year by ten, whole days and a fraction. To make the Roman calendar year equal to the solar. Numa ordered an additional, or intercalary, month to be inserted every second year, consisting of twenty-two and twenty-three days alternately. The mean length of each year was three hundred and sixty-four

By this arrangement the year was too short by one day and a fraction. This error averaging at least one day every year amounted to over twenty-four days in twenty-four years, to correct which it was ordered that every third period of eight years each. instead of the customary four intercal. ary months, ninety days in all, should contain only three intercalary months. consisting of twenty-two days each-The mean length of the year was thus reduced to 35 1-2 days, which still jest the Roman calendar year eleven

Aching Joints

In the fingers, toes, arms, and other parts of the body, are joints that ar inflamed and swollen by rheumatismthat acid condition of the blood which affects the muscles also. Sufferers dread to move, especially

after sitting or lying long, and the condition is commonly worse in w

weather.

"I suffered dreadfully from rheumatism but have been completely cured by Hood Sarsaparilla, for which I am deeply gratful." Miss Frances Smith, Prescott, On "I had an attack of the grip which lett me weak and helpless and suffering from rheumatism. I began taking Hood's Sarangsrilla and this medicine has entirely cured me. I have no hesitation in saying it saved my life." M. J. McDonald, Trenton, Ont.

Hood's Sarsaparilla Removes the cause of rheumatism-no autward application can. Take it.

minutes and fourteen seconds longer than the solar year. This error, small as it seems, amounted to a day in

time of Julius Caesar the equinox in hundred, the calendar differed from the solarthat is the time it actually took placeby three months, so that the winter and the autumn months into summer. erly divided as follows: Every year civil year is guaged. A mistake in the civil year is thus very easily seen, 8,000, 12,000, 16,000, etc. Wit for when the calendar states that the when the equinox actually happens on gorian calendar will not vary more a different day the error is apparent.

To correct the error of three months that had accumulated in the Roman calendar, Julius Caesar assisted by Sosigines restored the time of the epuinox in the calendar and fixed the mean length of the year at 365 1-4 days. The three bundred and sixtyfive days he divided among twelve Total Revenue months, and got rid of the fraction of one-fourth of a day by decreeing Deficit that every fourth year should have three bundred and sixty-five days. The Julian calendar commenced with the first of January of the forty-sixth year B. C. and of the seven hundred and eighth from the foundation of the city Caesar's arrangement of the number of days in each of the twelve Registrar Deeds, S'side months was simpler than that of the preceding calendar. January, March, May, July, September and November had each thirty-one days and the others thirty, excepting February, which in common years had twenty nine and every fourth year thirty

To gratify the vanity of Augustus, Fire Insurance Co's August was given as many days as Life Insurance Co's taking a day from February and giv- Loan, Trust & Bld. Assns. ing it to August. Futhermore, in or Banks der that three months of thirty-one Telegraph Company days each might not come together, Steemship Companies September and November were re- Express Company duced to thirty days, and thirty-one Gas and Electric Light Co. days were given to October and Dec Miscellaneous Companies 1,150.00

At first these regulations of Caesar Land Tax were not sufficiently understood by Road Tax the pagans, who intercalated a day Succession Duties every third instead of every fourth year, which at the end of thirty six Total Revenue years aggregated an error of three days which Augustus remedied. But even then, as originally devised, the Julian calendar year of three hundred and sixty five and a quarter days exceeded the real solar year by eleven minutes and fourteen seconds which, as stated before, amounted to an error of one day in every one hundred and twenty eight years. This error became apparent by the shifting of the equincx. When the Julian calendar was first published the vernal equinox fell on March 25. At the Council of Nice in 325 it receded four days to the 21st of March, and in 1583 it had retrograded to the 11th of March.

To remedy this error in the Julian calendar Pope Gregory XIII. suppressed ten days by calling the 5th of Postage October, 1582, the 15th of October. This remedied, for the time being, the error of ten days which bad ac-



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young and old. FOR SALE BY ALL DRUGGISTS Send 10c., name of paper and this ad. for Sketch-Book. Each bank contains SCOTT & BOWNE

(barlangelen ? A. I-

cumulated, because the Julian calendar year was eleven minutes and four teen seconds longer than the solar year. To remedy this error for the

future Pope Gregory, assisted by Clavius, intercalated differently from Julius Caesar. As the accumulated error in

tercalations be omitted on all the of Apocalyptic prophecy, and, as century years excepting those divisible usual with such people, found his by four hundred. Thus the three key to the problem of the world's lays' error in four hundred was re- end in discovering the number 666 every one hundred and twenty-eight five bours, forty-nine minutes and When the lapse of time showed his gan priest who had charge of Numa's calendar this almost perfect Roman day only in 3323 years. And as he had blundered, he began again calendar became unserviceable. For 3323 differs little from the whole with a new series of interpretations by assigning a greater or lesser num- number 4000, it has been suggested He had a considerable following ber of days to the intercalary months to correct the Gregorian calendar in and the newspaper in which each they were enabled to prolong the this regard by making the year 4000 week he published his views had an term of magistracies, or hasten the and all its multiples, 8,000, 12,000, enormous circulation, and became annual elections. So little care had 16,000, etc., common years, even valuable property, Once this paper

A brief summary of the intercalations, that is, the method whereby the five hours, forty-eight minutes months were carried back into autumn and forty-six seconds may be prop The vernal equinox-the time in the divisible by four is a leap year, exspring of the year when the days and cepting the last year of each century, nights are of equal length is that land- which is a leap year only when it is mark in the solar year whereby the divisible by four hundred, excepting the year 4000 and its multiples this last correction the commence equinox will be on such a day and ment of the solar year and the Grethan one day in two hundred cenuries .- N. Y. Freeman's Journal,

Provincial Financial State-

Total Expenditure

RECEIPTS FOR THE YEAR. Dominion Subsidy Public Lands Provincial Sec's Fees 1.814 97 of it every week end -A. H. A., in

Prothonotary's Fees Registrar Deeds, Ch'town 3.729.10 2.060 93 County Court Fees Fines and Penalties 1 133 48 Hospital for Incare, Fees 4,442.01 Private Bills Vendor's Licenses Peddler's Licenses Casual Revenue Com. Traveller's Licenses

500 00 150.00 10,631.78

\$375,374.45

EXPENDITURE FOR THE

Boards of Health Corocer's Inquests Dept. of Agriculture Executive Council Exhibitions Hospital for Insane Interest Legislation Library and Stenog's office

Miscellaneous. Poor House Public Lands Prov. Sec,-Treas's Dep'

Prov. Auditor's Dept. Provincial Building Registary Offices Telegrams. Public Works Dept. Government House Provincial Infirmary Packets

Ferries & Ferry Steamers 7,492 13 3,775.00 Wharves 3.692 91 28 445 16 Inspector's Sal. and Inquis. 2,288.95 22 001.90 Miscel, Public Works Debent. Sinking Fund 4,095.00 Provincial Infirmary 15,941.27 Court House, Ch'town Rights of Way

Concrete Oniverts 1,871,76 Concrete Pav'ts, Queen Sq. Permanent Bridges 2,935.54 Total Expenditure

Debentures Sold \$500,000 00 Proceeds of Debent. Sale 498,250.00

Distemper.

The Bold Mr. Baxter.

There died January 7th, at his house in North London, the Rev. Michael Baxter, clergyman of the Church of England, popularly known as "Baxter the Prophet." At least Julian calendar, due to eleven ten times in the last forty years be minutes and fourteen seconds, was confidently fixed the date of the years the Pope ordered that the in; pass by. He was a bold interpreter giving perfect com

medied. For this reason the century in the names of various public charyear 1600 was a leap year, out 1700, acters written in Greek letters. 1800, 1900 were common years. The Napoleon III. the unfortunate Prince century year 2000 will be a leap Imperial, Prince Jerome Napoleon, year because it is divisible by four General Boulagner and Prince Vichundred. Thus the Gregorian year tor Bonaparte were successively is three hundred and sixty-five days identified as the "Besst, No. 666. welve seconds, which exceeds the dates were wrong, and the passing true solar year by twenty-six sec- away of the men he had marked onds. This excess amounts to a with the mystic number proved that been taken to regulate it that at the though they are divisible by four gave striking proof that the "Pro phet's" views of the future were very limited. In order that it might

reach the remotest subscribers on the Saturday morning, he printed i n the middle of the week. When the King's coronation was first arranged Mr. Baxter, with a journal. ist's intelligent anticipation of coming events, brought out his paper with a report of the deremony and a picture of the King's entry into the city after the event. Some thousands of copies were already on the way to subscribers when the coronation was suddenly postponed because the King was in the hands of the surgeons. But there was the taked record in print and picture showing things that should have happened but at the last moment failed to occur. Mr. Baxter calmly went on with his paper, prophesying the exact date of the world's

end, after showing he could not for see the events of the next three days. And his subscribers took him at his valuation and went on buying his every varying Apocalyptic prophecies. There is a large \$272.181.88 market for this curious literature in 2.672.85 England. One of the most virulent 1,021.85 of the anti-Catholic weeklies is full

Social Reform.

'America."

598 52

60,00

14,875.21

4,418,67

In addressing the Federation of Women's Olubs at Oleveland last 1,060 00 week, Rev. Francis P. Moran, 231.96 paster of St. Patrick's Courch, 1,740 00 declared that the civilization of 5,175.00 today is going downward. "Un-2,550.00 less this tendency is stopped," he July, named after Julius Caesar, by Accident and Guarantoe Co's 500.00 said, "I fear the consequences. We 337.50 are sleeping on our arms. We point 6,668.63 to our libraries and our public institutions to show that we are progressing and we do not realize the extent

of existing evils." Father Moran's talk was upon The Tenement Problem," but he also touched upon the subject of immoral theatrical productions, of picture shows and penny arcades which exhibit objectionable pictures. The overcrowding of the cities and the desire to make money he considered as responsible for the deplorable housing conditions of the poor in

every city in the country. " Many old houses in Cleveland." \$21,153 33 he said, "contain families of seven or eight. They live in two or three rooms. Smetimes eight or nine 5,688.21 people eleep in one room, often 709.80 with no outside window. Such 129,178,91 places are the breeding ground of 3,758 52 orime and disease, and instead of 6,850.00 trying to wipe out the causes, we 35 368,04 are complacently building work-34,155 63 houses, penal institution, poor. 9,714 83 houses and insane asylums for the 1,841.77 products of our city conditions. The 6,629.74 associated Charities, the Humane 1.919.93 Society and other like organizations are working only on the surface. 436,33 Not one of them has yetgone down 943.83 to the cause. Corrective legislation, 6.302,14 honest, and of the right kind, should 1.463.90 be the first step, and then law en

5,454.79 code and other legislation." 60 06 Father Moran deplored the rush to he cities and said that although this 407.51 was something which could not be 3,093.97 controlled, every effort should be made to direct the flood of immigrants into the rural districts.

3,320.97 forcement in regard to the building

Representative F Barton Harrison, t New York, made a speech in Congress, on January 8th, in which ne defended the good name of Belgium against the charges contained n the reported atrocities in the Congo Free State. "I have taken occasion to say," he stated, "that I believe that the reported atrocities in the Congo Free State were due mainly to the actions of one native tribo fighting another, and that the Belgians, instead of being responsible for any of these outrages, had done a great deal to put a stop to them. Notably was this the case in the extermination of the Arab elsve trade by the late King Leopold, a seemingly impossible task success the top. I can now go up wit fully earried out at his private ex-Minard's Liniment cures pense. I have also had occasion to express my firm conviction that the agitation pirected against the Bel- Limited, Toronto, Ont.

Suffered Terrible Pains

For Backache, Lame or Weak Back-

Mr. Dougald A. McIsaac, Broad Cove Banks, N.S., writes:—"I was troubled with my kidneys for nine months, and suffered with such terrible pains across the small of my back all the time that I three I was completely cured." Price 50 cents per box, or 3 for \$1.25, all dealers or mailed direct on receipt of price by The T. Milburn Co., Limited, When ordering specify "Doan's."

these circumstances, I felt called upon to enter an earnest protes Secretary Root was led by the chestnuts out of the fire for them."-

Gentlemen, - My daughter, 13 years old, was thrown from a sleigh and injured her elbow so badly it remained stiff and very painful for three years. Four bottles of MIN-ARDS LINIMENT completely cared her and she bas not been troubled for two years. Yours truly,

parents that I have failed in my ex "Merely telegraph them:

ination over. Nothing new!" Minard's Liniment Cures

George-"Do you think that good enough for you, darling?"

Muscular Rheumatism.

colds, tec.

Mr H. Wilkinson, Stratford, Ont. says:-It affords me much pleasure two boxes of Milburn's Rheumatic Pills. Price a box 50c.

I haven't seen anything of Brown for several months. What's the matter?" "Nothing. He's got a job

A Sensible Merchant.

Mrs. Fred. Laine, St. George, Ont. writes :- " My little girl would cough so at night that neither she nor I could get any rest. I gave her Dr Wood's Norway Pine Syrup and am thankful to say it cured her cough

Startled Visitor-Gracious! What's that? Must be an earthquake! The

"Have you ever wondered about your husband's past?" "Dear me no; I have all I can do in taking care of his present and worrying about his future."

Neuralgia.

There is nothing barsh about Laxa Liver Pills. They cure Constipation, Dispepsia, Sick Headache, and Bilious Spells without griping, purging or sickness. Price 25 cts.

Was All Run Weighed 125 Lbs. Down. Now Weighs 185.

Mrs. M. McGann, Debec Junction, N.B., vrites:—"I wish to tell you what Mil-nurn's Heart and Nerve Pills have done for me. Three years ago I was so run down I could not do my own work. I went to a doctor, and he told me I had heart trouble and that my nerves were all unstrung. I took his medicine, as he ordered me to do, but it did me no good. I then started to take Milburn's Heart and Nerve Pills, and had only taken one box before I started to feel better, so I continued their use until I had taken several boxes, and I am now strong and well, and able to do my own work When commenced to him your will I commenced to the strong and well. on menced taking your pills I weighed pounds, and new weigh 185 and have given birth to a lovely young daughter, which was a happy thing in the family. When I commenced taking Milburn's Heart and Nerve Pills, I could not go upstairs without resting before I got to the ton. Lean now go up without any The price of Milburn's Heart and Nerve

From Her Kidneys For Nine Months.

minutes and fourteen seconds, was confidently fixed the date of the taking out the stitches, twitches and about three days in four hundred general judgment and lived to see it twinges, limbering up the stiff back, and neys so that they are enabled to extract

could hardly get around. After taking two boxes of Doan's Kidney Pills I began to feel better, and by the time I had taken

gians in Great Britain was due to a desire on the part of the latter coun try to appropriate to itself the vast territories of the Congo Free State, both on account of the natural resources there and because that territory offered to the British the best opportunity for the construction of the Cape to Cairo Railway, Under against the action of our Department of State in presenting its note of last year to the Belgian Government. British into an attempt to pull the

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J. B. LIVESQUE. St. Joseph, P. P., 18th Aug., 1900.

"How shall I break the news to my

Darling-"No, George; but you're too good for any other girl."

to say that I experienced great relief from Muscular Rheumatism by using

plaster is falling too! Mild Mater-Oh, no! It's just the boys. Two of them are sick in bed today,

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