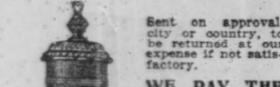


**PATTOSIEN'S**  
**\$6.00**  
 WILL BUY THIS NEW PATENT BURNER  
**OIL-HEATER.**



Sent on approval, city or country, to be returned at our expense if you do not like it.

**WE PAY THE FREIGHT.**

This heater has large iron base, removable cast top, elegant nickel trimmings, Russian from cylinder, height 31 inches, base spread 18 inches.

There are other heaters, but no other heaters are sold with a guarantee like ours.

**\$6.00.** Send for catalogue.

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**Orpheum**  
 Special Matinee To-Day, NEW YEAR'S DAY. Reserved seats, 25c; balcony, 15c; opera boxes, 50c.

**SAN FRANCISCO CAPTURED!**  
 THE TALK OF THE ENTIRE COUNTRY. ENDORSED BY PRESS AND PUBLIC.

**THE GREAT ORPHEUM ROAD SHOW.**

EVERYTHING NEW. And in addition to the renowned SISTERS (Lola and Nellie) HAWTHORNE, WILLIAM CARROLL DAVIS and THE BROTHERS.

**SECOND AND FINAL WEEK.**  
**SPECIAL MATINEE TO-DAY.**

**\*TIVOLI\***  
 EXTRA NEW YEAR'S MATINEE AND SATURDAY AT 2 P. M. SHARP. EVENINGS AT 8. THE MARVELOUS HOLIDAY SHOW.

**CINDERELLA!**  
 By FERRIS HARTMAN.

BE SURE AND BRING THE CHILDREN. See Oscar L. Post's FIRE TRANSFORMATION. The Flowery Kingdom. POPULAR PRICES. 25c and 50c. Telephone—Bush 3.

**BELASCO AND THALLS THEATRE**  
**CENTRAL**  
 Phone South 1111. LAST 7 NIGHTS—LAST 7 NIGHTS. MATINEE TO-MORROW—NEW YEAR'S.

To-night and Every Evening—St. Matinee. THE GREATEST SUCCESS IN YEARS. DAVE BRIDGES' FANTASY REVUE.

**THE HEART OF MARYLAND**  
 THE BEST OF ALL BIG PLAYS! SEE THE GREAT BELLEVUE SCENE! Magnificent and Realistic Scenery. Exciting Episodes. A Great Entertainment.

PRICES—10c, 25c, 50c, 75c, 1.00, 1.50, 2.00, 2.50, 3.00, 3.50, 4.00, 4.50, 5.00, 5.50, 6.00, 6.50, 7.00, 7.50, 8.00, 8.50, 9.00, 9.50, 10.00.

Secure Seats at Box Office of Theatre. Next Monday—"WOGAN AND WINE."

**COLUMBIA** SAN FRANCISCO'S LEADING THEATRE  
 A GREAT BIG HIT!  
**HOLIDAY MATINEE TO-DAY.**

Matinee at Specially Reduced Prices. MR. GEORGE W. LEDERER Presents His Famous Casino Theatre, London, Success.

**THE BELLE OF NEW YORK.**  
 THE MOST FAMOUS COMIC OPERA IN THE WORLD.

NEXT MONDAY, JANUARY 1.  
**"WAY DOWN EAST."**

**ALHAMBRA**  
 All-Englishness—Proprietor and Manager. Phone—South 77.

**MATINEE TO-DAY, NEW YEAR'S DAY.**  
 EVERY EVENING THIS WEEK. JACOB LITTE'S Magnificent Revue of

**SHENANDOAH!**  
 25—VETERAN ACTRIEWMEN—25 FROM CTIA AND THE PHILIPPINES. Words of Praise From GEN. MILES: "The Best of Best Plays." His Excellency's EVENING—10c, 25c, 50c, 75c, 1.00, 1.50, 2.00, 2.50, 3.00, 3.50, 4.00, 4.50, 5.00, 5.50, 6.00, 6.50, 7.00, 7.50, 8.00, 8.50, 9.00, 9.50, 10.00.

Special Engagement of RICHARD GOLDEN. In "OLD JED PROUTY."

**ALCAZAR THEATRE**  
 NEW YEAR MATINEE TO-DAY. TO-NIGHT, Farewell to NAUGHTY ANTHONY.

BEGINNING TO-MORROW NIGHT. Special Engagement of

**FLORENCE ROBERTS**  
 IN THE ADVENTURES OF

**NELL GWYNN**  
 New Scenery Painted From Historical Researches. SEATS SIX DAYS IN ADVANCE.

**RACING! RACING! RACING!**  
 1899—WINTER MEETING—1901. CALIFORNIA JOCKEY CLUB. DEC. 31 TO JAN. 1, INCLUSIVE. OAKLAND RACETRACK.

Racing Monday, Tuesday, Wednesday, Thursday, Friday and Saturday. Rain or shine. Five or more races each day. Ferry-boats leave San Francisco at 12 m. and 12:30, 1:30, 2:30 and 3:30 m., connecting with trains stopping at the entrance to the track. Last two cars on train reserved for ladies and their escorts, no smoking. Buy your ferry tickets to Shell Mound. All trains via Oakland mole connect with San Pablo avenue electric cars at Seventh and Broadway, Oakland. Also all trains via Alameda mole connect with San Pablo avenue cars at Fourteenth and Broadway, Oakland. These electric cars go direct to the track in fifteen minutes. Season Tickets Transferable. 75c. 1.45 p. m. and immediately after the last race. THOMAS H. WILLIAMS JR., President. R. B. MILROY, Secretary.

**UNION COURSE PARK.**  
**TO-DAY, January 1st, 1901**  
**SPECIAL HOLIDAY EVENT!**  
 64—HARE-CHASERS—64

TRAIN SERVICE. Leaves Third and Townsend streets, 10:15 a. m., 11 a. m. and 1 p. m., returning at 4:45 p. m. and after the last course. San Mateo Electric Cars every six minutes. Admission 25c. Ladies Free.

**POOR PLAY NEEDED**  
**STAGED AND ACTED**  
 Creditable Production of "The Heart of Maryland" at Central Theater.

If one were to arrange in order of merit the three most popular war dramas of this decade, "Secret Service" would undoubtedly stand first, "Shenandoah" would come in a fair third and "The Heart of Maryland" a bid second.

The last mentioned play was made much less by its own merits than by the refusal of a Chicago millionaire to pay for Mrs. Leslie Carter's tuition in the dramatic school of Mr. David Belasco. Every one remembers how, on the witness stand, that distinguished adapter swore he had dragged Mrs. Carter around the room by the hair in order to make her a great actress, and hundreds of thousands of people were anxious to see whether the results of this process were all that Mr. Belasco claimed for them. Hence "The Heart of Maryland," with its overheard conversations, etc., antiquated asides, its banalities, brutalities and bestialities.

Yet, in spite of these defects and in spite of Mrs. Carter, the play must have some merits or it could hardly have held the stage as long as it has. These merits are a somewhat ingenious plot and a skillful use of those mechanical stage devices that are impressive only when their use is unknown. Combine these with good acting and you have a product that may charm the goliards out of many pockets. But let us not pretend that any other object is aimed at or hit. Scenically the production at the Central

**California.**  
 In spite of the new century music on the streets and the various other attractions of the evening, a fairly large audience greeted the famous St. Matinee last night at the California Theater. An even more interesting programme than that of the preceding evening was given, and given with all the grace and acrobatic for which the band is noted. The menu was heavier than Sunday's, including the Chopin "Marche Funebre," orchestrated by the conductor, and the waltz, containing a rather trivial interpolated triplet accompaniment in the beautiful trio, "The Mountain Spirit" was played with exquisite finish and shading. The "Sylvia Pizzicato" was a dainty piece of workmanship, and the Meyer-Helmund waltz, "The Mountain Spirit" was played with more beautiful. The "Carmen" arrangement, arousing a host of memories of the fascinating ruse's interpreters of the sea, was enthusiastically received. His clever rendering, and Strauss' "Morning Journal" waltz, an Evening Song of Zerkow's, and a Strauss galop, completed the programme. The same infectious swing, nicety of phrasing, brilliant attack and perfect ensemble that distinguished the first night performance was again happily in evidence.

**"Shenandoah."**  
 The war drama is in all its glory at the Alhambra, where "Shenandoah" is filling the body of the house and packing the galleries. General Sheridan is nightly riding to glory amid the rattle of rifle and the booming of the eagle-lone cannon. Cavalry dash over the Shenandoah Valley roads; men, begrimmed and gory, valorously battle and work up a climactic effect in the "The Willow Pattern Plate." The Hawthorne sisters in this selfsame sketch were seen here before, and the audience with their own eyes attested the beautiful conceit. The biograph has a series of splendid new views, which help to swell the finest vaudeville show ever offered at the Orpheum.

**Palace and Grand Hotels, San Francisco.**  
 These hotels possess the attributes that tourists and travelers appreciate—central location, liberal management, modern appointments and perfect cuisine. American and European plans.

**KERN RIVER OIL LANDS**  
 Proven territory, on line of railroad, for sale. Splendid chance for those about to form an oil company. NEWTON, CARMEN & BOMES (S. C. MASON, agent), 311 Chronicle Bldg., San Francisco.

**MOROSCO'S GRAND OPERA HOUSE**  
 CROWDED ALL THE TIME. MATINEE TO-DAY. The Greatest Success in the City. "OLIVER TWIST" COMPANY. ALL THIS WEEK. Marie Doran's Romantic Play.

**NELL GWYNN!**  
 Received last night with enthusiasm by a crowded house. Evening Prices—10c, 25c, 50c, 75c. Good reserved seat in orchestra at all matinees. Branch Ticket Office—Emporium.

**CHUTES AND ZOO**  
 NEW CENTURY ATTRACTIONS.  
**QUERITA VINCENT.**  
 CALIFORNIA'S FAVORITE COMEDIENNE. TEN DAYS IN FAIRYLAND. JUVENILE SPECTACULAR. ROSE LU TYLER, HAL CONLETT, AHERN AND PATRICK, HENNELLA.

**NEW YEAR'S PRESENT TO EVERY CHILD**  
 TELEPHONE FOR SEATS, PARK 21.

**MR. AND MRS. GEORG HENSCHEL**  
 IN SIX GRAND RECITALS—AT METROPOLITAN TEMPLE—February 5th, 7th, 9th, 11th, 13th, 14th. Sale of Season Tickets Begins Next Monday Morning AT SHERMAN, CLAY & CO.'S, BUTTER AND KEARNEY STS. Season Tickets Transferable. 75c. PRICES—\$9.00, \$7.00 and \$5.00.

**FISCHER'S CONCERT HOUSE.**  
 Marie D. Woods, Katerina Blanche Malloy, Stanley and Woodward, the Leader Brothers, Tom Mack, the Grasers and Others. Reserved Seats 50c. Special Matinee New Year's

**JOHN M. CHRETIEN**  
**IS IN SAN QUENTIN**  
 Convicted Attorney Gives Up His Fight for Liberty and is Taken to the Penitentiary to Serve 14 Years.



THE CONVICT ATTORNEY WHOSE BOLD CONSPIRACY TO LOOT THE ESTATE OF THE DEAD JOSEPH SULLIVAN WAS FULLY EXPOSED BY THE CALL.

**JOHN M. CHRETIEN**, the disgraced convicted attorney, was taken to San Quentin yesterday afternoon to serve his sentence of fourteen years for forgery. It was at his own request that the term begin at once.

Chretien on October 25 last made application to the Supreme Court through his attorney, W. S. Barnes, for a stay of proceedings.

Yesterday an application was filed for the dismissal of the stay. The prisoner in the petition declared that he was anxious to begin the serving of his term of imprisonment without delay. Chretien, despaired of ever having the judgment of the court set aside and figures that the sooner he commences serving his sentence the sooner he would again be a free man. The close confinement in the County Jail is not to him filling and he concluded to waste no more time.

Chretien was the chief mover in a conspiracy to loot the estate of the late Joseph Sullivan, and the plot was exposed by The Call. The conviction of Chretien quickly followed, and since that time he has vainly endeavored to contrive some scheme to evade paying the penalty for his crime.

**GREETINGS TO THE NEW BORN CENTURY**

Continued from Page Four.

floor manager and Louis J. Smith assistant. They were aided in the management of the function by Fred Trausek, J. G. Thomas, J. Hayes, Louis P. Mohr, J. C. Nolan, J. E. O'Brien, J. Herringer, John Johnson, Henry dance, Miss Annie Bruce.

The members of Union Lodge of the National Aid Association held their annual festival and dance at the Alhambra last night. The following programme was carried out:

Overture; by orchestra; address of welcome, Mrs. Hall; fancy dance, Miss Hazel Merriam; Gertrude Maddigan and Olga Harding; comic song, James Foley; comedienne, John Brown; John Brown specialties, Miss Elsie Anderson; "Something Funny," Willie Fleming; "Just Friends," J. B. Johnson; fancy dance, Miss Annie Bruce.

Then followed the distribution of New Year's gifts to the children of members.

The affair was under the direction of Mrs. D. E. Carraus, Mrs. E. Harmon, J. H. Garratt and G. Terkildsen.

**ABOLITION OF WAR**  
**PRELATE'S DESIRE**  
 Bishop Hamilton Would See Nations at Peace During the Coming Century.

The watch night service at the Central M. E. Church was marked by simplicity tinged with appropriate musical and electrical grandeur. The service opened at 8 o'clock with the rendition of the Gloria by the choir, followed by the sacrament, which was given with the hygienic innovation of individual cups.

Susie P. Abbott spoke of the origin of the watch-night; J. H. McCallum on the R. V. Watt on "The Sunday School," and Susie A. Ward on "Our Publishing Interests."

At 10:15 there was a love feast, followed by a sermon on the coming century, by Bishop John W. Hamilton, D.D. The reverend speaker, after mentioning the deep significance of the coming century and unfolded in the history of the last year, went on to speak of the changes that will be wrought during the past few years.

"Looking forward into the years to come," said he, "I see a glorious prospect. War will be abandoned. It has already become an antiquated thing. It settles nothing and never did anything. Since the world began the classes have been ranged against the masses. The history of the world has been a continuous operation of all the world for one man and this man for all the world."

**DANCED MERRILY**  
**INTO NEW CENTURY**  
 Guests in Character Costumes Welcome the New Year at the Jewett Home.

One hundred merry-makers assembled by invitation at the home of Mr. and Mrs. J. H. Jewett last evening, and amid the jolliest surroundings bade farewell to the old year and joyfully welcomed the new century.

Mrs. Jewett's invitation called for her guests to come in costume, representing some fad or fancy of the old year, or some anticipated fad or fancy of the new year. This request was followed by all, and the result was more than pleasing.

The keynote to the entertainment was struck by the decoration of the elegant home. The great inventions of the past century in civilization were all aptly illustrated by means of books, pictures and flowers. The many fads that marked the past year were the love of receiving, the veneration in civilization were all aptly illustrated by means of books, pictures and flowers. The many fads that marked the past year were the love of receiving, the veneration in civilization were all aptly illustrated by means of books, pictures and flowers.

**Garibaldi Guard Aid**  
 The Garibaldi Guard Mutual Aid Society gave its annual ball in Garibaldi Hall, 423 Broadway, last night. A large crowd enjoyed the festivities, dancing until daylight was the order of the programme.

**Thanks to the Public.**  
 As we are now approaching the twentieth century and have succeeded within four years in establishing the largest furniture and carpet house west of Chicago, we feel it our duty to extend best thanks to the kind people of the Pacific Coast for assisting us in making our store the greatest in the city. Of course, it must be admitted that we have not neglected the kindness. Our principle from the start has been to give our customers with all—and this with the new century we shall continue to do. Wishing you a happy New Year, we are, respectfully yours, Pattosien Co., Sixteenth and Mission streets.

**Irish Turkey for New Year.**  
 Colonel John P. Irish, United States Naval Officer, in accordance with his usual custom presented each of the clerks in his office with a twelve-pound turkey with which to celebrate the advent of the twentieth century.

**Our Challenge Is Out.**  
 We defy all competitors to compete with our prices. To-morrow (Wednesday) we will place on sale 500 pairs ladies' patent sizes and widths, standard price \$3.00, for \$2.50 a pair. One pair to each customer. No shoes sold after 5 p. m. Standard 1023 Market street, between Sixth and Seventh streets.

**HOW TO STUDY CIRCLES**  
**FOR CALL READERS**  
 Night School Course—How to Do Things. Method of Reckoning Discount on Notes Explained.

Copyright, 1900, by Seymour Eaton.

**XXIII—HOW TO RECKON DISCOUNT ON NOTES.**  
 The student must remember in taking up this lesson that methods of discounting differ considerably in different cities and among different banking institutions. Bankers and note brokers buy notes at a discount from their face value. This discount is really the interest which they charge for the use of the money which they lend, for, as a matter of fact, the money is lent, and it is held in security. The rate of discount depends upon the tightness or abundance of money in the market, as well as upon the financial standing of the persons whose names appear as makers or indorsers.

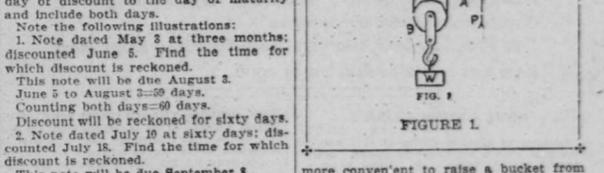
The following general rule for reckoning time will serve the purpose of this lesson. The student will remember, however, that this rule is not uniformly adopted by banking institutions.

In reckoning the time count from the day of discount to the day of maturity and include both days.

Note the following illustrations:

- Note dated May 3 at three months; discounted June 5. Find the time for which discount is reckoned.
- Note dated June 2 at three months; discounted July 10 at sixty days; discounted July 18. Find the time for which discount is reckoned.
- Note dated July 15 at three months; discounted August 1. Find the time for which discount is reckoned.
- Note dated August 1 at three months; discounted August 15. Find the time for which discount is reckoned.
- Note dated August 15 at three months; discounted August 31. Find the time for which discount is reckoned.
- Note dated August 31 at three months; discounted September 15. Find the time for which discount is reckoned.
- Note dated September 15 at three months; discounted September 30. Find the time for which discount is reckoned.
- Note dated September 30 at three months; discounted October 15. Find the time for which discount is reckoned.
- Note dated October 15 at three months; discounted October 31. Find the time for which discount is reckoned.
- Note dated October 31 at three months; discounted November 15. Find the time for which discount is reckoned.
- Note dated November 15 at three months; discounted November 30. Find the time for which discount is reckoned.
- Note dated November 30 at three months; discounted December 15. Find the time for which discount is reckoned.
- Note dated December 15 at three months; discounted December 31. Find the time for which discount is reckoned.

**XXVI—HOW TO ESTIMATE PULLEY POWER.**  
 When the block in which the pulley turns is fixed the pulley is said to be fixed. There is no mechanical advantage gained by a single rope over one or more fixed pulleys; but this combination is of the greatest use in enabling us to change the direction of the force. Thus it is much more convenient to raise a bucket from a well by drawing downward, as is the case where the rope passes over one or more fixed pulleys, than by pulling upward, leaving over the curbing.



From its portable form, it can be applied to the pulley is one of the most convenient and most useful of mechanical powers.

Pulley blocks are used very generally, especially in building operations, where

**EXERCISES FOR PRACTICE.**  
 Note in the following exercises the date of the note is given first, then the time as stated on the face of the note, then the date upon which the note is discounted, it is required to be reckoned. Consider February as having twenty-eight days.

- March 20; 3 months; March 20.
- April 1; 3 months; April 1.
- May 25; 2 months; May 28.
- June 15; 4 months; July 2.
- January 10; 3 months; February 20.
- September 1; 90 days; September 26.
- October 4; 90 days; October 6.
- August 29; 90 days; June 25.
- June 30; 90 days; June 30.
- August 31; 90 days; October 2.

Having learned how to find the time, we proceed to find the discount in precisely the same manner as we find the interest. The discount is really the interest on the face of the note for the time the banker has to wait.

**EXERCISES FOR PRACTICE.**  
 Note the following illustration:  
 A note for \$200 is dated August 3 at three months and is discounted September 2 at 6 per cent. Find the amount of the discount.

**EXERCISES FOR PRACTICE.**  
 Note the following illustration:  
 A note for \$200 is dated January 12 at six months and is discounted October 12 at 6 per cent; find the discount.

**EXERCISES FOR PRACTICE.**  
 Note the following illustration:  
 A note for \$200 is dated September 14 at four months and is discounted October 2 at 6 per cent; find the discount.

**EXERCISES FOR PRACTICE.**  
 Note the following illustration:  
 A note for \$200 is dated June 27 at four months and is discounted July 10 at 7 1/2 per cent; find the discount.

**Answers.**  
 (1) 30, (2) 30, (3) 55, (4) 106, (5) 50, (6) 56, (7) 85, (8) 55, (9) 61, (10) 50, (11) \$30.22, (12) \$136, (13) \$30.75, (14) \$5, (15) \$11.00.

**XXIV—HOW TO MAKE AN ELLIPSE.**  
 The most simple and quickest way to make a perfect ellipse is the string method. Tie a string so as to make it endless; use two pins or tacks for centers and place the loop over both centers and use the pencil inside the loop and mark



ropes holding the weight and that as a consequence a power of five pounds will balance a weight of fifteen pounds. Apply this principle again to figure 3, which is the common form of pulley used to lift heavy weights. The student will notice that there is a four-sheave block at the top and a three-sheave block at the bottom, with the end of the rope fixed from the top block. The three-sheave block is movable. A power of five pounds will lift this form of pulley balance a weight of thirty pounds.

**Problems.**  
 1. A safe weighing 4000 pounds is being hoisted to the window of an office building by a system of pulleys, each block of which has four pulleys. What power will be necessary to hold the safe? (Answer—500 pounds.)

**XXV—HOW TO FIGURE HORSE-POWER.**  
 A unit of work is the force or labor required to raise one pound through the space of one foot. A horsepower is 33,000 units of work performed in one minute. A horse really performs nothing like this amount of work; possibly not more than two-thirds.

The indicated horsepower of an engine is the true measure of the work done within the cylinder and can be accurately calculated. The things necessary to be known in order to make the calculations are:

- The diameter of the cylinder in inches.
- The length of the stroke in feet.
- The average pressure of the steam on the piston during the full length of the stroke.
- The number of revolutions per minute.

To calculate the horsepower of an engine proceed as follows:

- Find the area of the piston.
- Find the pressure in pounds on the piston by multiplying the area by the average pressure per square inch.
- Find the space in feet traveled by the piston per minute by multiplying the length of stroke in feet by twice the revolutions per minute.
- Find the units of work done by the engine per minute by multiplying the answer to No. 2 by the answer to No. 3.
- Find the horsepower by dividing the gross number of units of work (sometimes called foot pounds) by 33,000.

Note the following exercise:  
 What is the horsepower of an engine, the diameter of the cylinder being 14 inches, the length of stroke 2 feet, revolutions per minute 110 and the average

**Keep Your Blankets**  
 as soft as new, by washing them in

**GOLD DUST**  
 Washing Powder