Six or eight tons of cast iron can made into steel in twenty minutes

The woman who can control her own tongue is greater than he who ruleth a city. She is also scarcer.—N.

Y. Star.

—It has been estimated that after a apse of ten million years the sun can ot give out sufficient heat to support dead six months."

The fabric known as Chinese grasscloth is made from the fiber of nettles. The cloth is peculiarly glossy and transparent, and as helting for machinery has double the strength of leather.

-Two substitutes for the high priced gum arabic-one from flax-seed and the other from starch are expected to serve all purposes for which the genuine gum is used.

Without taking into account the mall variations due to refraction, etc., the days and nights are always of equal jength at all points on the equator, rithout regard to the position of the

-Steel is iron with from one-half to two per cent of carbon. It was formerly prepared by heating wrought iron with earbon till it took up the proper quantity. It is now made on a large scale by the Bessemer process of burning out the carbon and silicon of east-iron by forcing a blast of air through the

-Additional experiments have been made, and with good success, with the new French method of coating pipes with cork. A layer of cork is first employed, asbestos coming next, and finally another layer of cork: 'The temperature inside the pipes was some 400 ° Cent., and after 360 hours the temperature of the outer surface of the coating was found to have only risen to

-Dr. Julius Pohlman thinks the reason why our teeth decay so fast is because we do not use them enough, and, like other organs that are not exercised, they tend to atrophy. Our teeth become weak because unused to hard work. The author warns mothers and nurses not to give children soft food if they would have them have good teeth; in other words, make them eat their crusts.

-A French experimenter, utilizing the power generated simply by, the heat of the sun, has succeeded in raising 2,500 quarts of water in an hour from a depth of twenty feet. Extravagant hopes have been entertained that any thing about Brown, or his ability in the future the energy from this source may be so brought under control that many of the present methods of obtaining power may be done away

—A recent writer makes a strong plea for simplicity in the terminology science. The late eminent chemist, M. Muinas, is reported to have said that the complexity and uncouthness of modern chemical nomemelature were you are a nice one, you are! You something gigantic, and that he found it impossible to keep pace with all the new theories and verbal alterations that were flooding his favorite science.

-An interesting development in photography is in the use of clockwork in printing from negatives. By this means a continuous web of sensitized paper is drawn at suitable intervals under a negative exposed to a source of light. After printing the paper is drawn, still by the mechanism, through "washer," "toner" and "fixer" successively; and appears finally as a series of finished pictures ready for mounting, and all alike in exposure, color

EARLY INSTRUCTION.

Why Children Should Be Made to Do Work Sultable for Their Age. dren to do work suitable and proper thing exists), but what would be the for their age. If a mistake is made, do not reprove them sternly. Kindly had been no American magazines? point it out, if unnoticed, and allow Suppose I, as an American author, them to undo or correct it, if it is in write a novel, and arrange with a put their power. Mothers are often so lisher to bring it out at the price of \$1 harried and worried with work and the a volume, or 50 cents paper. If he care of children, that they feel or think has confidence in the book, the first they have no time to teach them to edition will be 1,000 copies; my share cut out simple articles, or to do sew- of the proceeds on the ordinary 10 per ing, knitting, etc. The oldest daughter cent basis is \$100, payable at the end is usually taught those useful arts as of the year. If I live by my pen I early as her sixth year. There seems to must subsist during that year on nothbe time to instruct her, as the wants of ing at all, and when I get my \$100 I those younger do not yet need atten- must pay out of it my debts for that tion in that way. The oldest son, too, s early called to help about work. their time in play. Recreation is neces- could enter upon the enjoyment of that is the result. Boys and girls, whose home is on a farm have peculiar adto their capacity. The well-kept dis- occurs as often as once in a thousand trict schools of the country are pleasant places in which to gain knowledge. of no less than \$500-assuming, of The long walks to and from school, course, what is never the fact, that all with fields of grain and orchards bordering on the road, have charms for healthy, happy children. After supper, when the evening work is done, cessful novel! How many of our the lamps are lighted, and lessons authors make twice that? How many share of their attention also. With all these, time can be taken for needful instruction in needlework, etc., for five feet in diameter, all the American girls. Be determined in this matter, novelists who make more than \$1,000 a dear mothers. See to it that every piece of work assigned to each is inished by herself. and within a reason—want to eat and drink, and three of the able time. Never allow a child to say: best cigars apiece afterwards, and a "O, it's no matter when I finish this," or, "Any time will do." These are agree to forfeit \$1.000 to the Home for dangerous expressions for young or old to mse, as they help to form the habit bill and leave enough over to buy a

self-respect by your sensible example and advice, and they will respect and honor you in return.—Rural New front of them.—Julian Hawthorne, in honor you in return.— Rural New Yorker.

The destruction of forests has pro-meded so rapidly in Prussia of late Jears that the Government has passed a law protecting timber. It was found hat the climate in many districts was hanging, and rivers and lakes were becoming shallow in consequence of the wholesale cutting away of woods.

The Government ornithologist at washington estimates that the surplus the United States treasury would of suffice to pay the bounty for exterminating the English sparrows in New York State

PUNGENT PARAGRAPHS.

-A law prohibiting the distillation of liquor goes against the grain in the West. - N. O. Picayune.

-Mr. Softleigh-"What in your opinion, is the limit to love?" Mr. Hardy—'Matrimony."—Life.

—First Lady—'Has your husband quit smoking yet?" Second Lady (just returned from the far West)-"Well, he ought to by this time; he has been

-Professional gamblers have a great many superstitions. One of the most practical is that if they deal the cards themselves they have a much better chance to win.—Somerville Journal.

- What was the text this morning, John?" inquired a druggist's wife who had been unable to attend church. "To err is human," replied the arsenic expert; "and it was a mighty sensible sermon."-N. Y. Sun.

-Time was when the college profesors used to box the ears of refractory freshmen. They would have to take a four years' course in sparring before they could do it now .- Burlington Free

-President-"Yes, Mr. Snapper, the faculty have decided that you have broken the rules, and there is no course for us but to suspend you." Student—"H'm; how about suspending the rules."—New Haven News.

-Miss Pounder (who has been having

wrestling match with the keyboard of the piano)—"Have you a sensitive musical ear, Mr. Tympanum?" Mr. T. (more candid than polite)—"Yes, I am sorry to say I have."—Boston Budget. -A physician has discovered that the older a man grows the smaller his brain becomes. This explains why the young men know every thing and the old men know nothing .- The Sturdy

Oak. -A Colorado judge has decided that a man is in duty bound to tell his wife whitewash; its rough plank floor was where he spends his evenings when

serpent in search of an engagement)-"No, I don't think I shall have any use for you this season; I've got the promise of a society actress, two bogus lords, a political convention, and a scandal in high life, and my bill of attractions is

about full."-Life. -"Do you know if Brown is a man of ability, Dumley?" "I don't know either, and don't want to know. He refused to lend me twenty-five dollars six months ago, and I haven't noticed him since." "He seems to be a man of financial ability, Dumley."—The Epoch -First Tramp-"If I had my way I'd have 365 national holidays in this year." Second Tramp-"You would. eh? And then there would be one working day in every four years. O. would make a galley slave of the poor laboring man, wouldn't you?"-Texas

Siftings. -"Why can not women make good lawyers?" asks an exchange. We never gave the subject much thought, but we suppose it is because they can't sit on the small of their backs, pile their feet on a table, spit half way across a room in a box full of sawdust, and charge \$15 a minute for it. There may be some minor reasons, in addition, but these appear to us to be the principal obstacles in the way of her success at the bar. -Burdette.

UNPROFITABLE WORK.

Julian Hawthorne Explains Why It Does Not Pay to Write Books. We may talk about the hardships of American literature (having assumed, If possible, parents, teach your chil- for the sake of argument, that such a state of that alleged literature if there last year, and probably my present funeral expenses, for who can live or Younger sisters wait on the little 35 cents a day, even if he were not ones, and often spend the rest of obliged to starve to death before he sary, but if kept up too long, fatigue princely income? But let us be extravagant and utopian-let us say that my edition is 5,000 copies, instead of vantages for learning to do work suited 1,000. In that case-which perhaps times-my reward amounts to the sum

the copies sold are in the dollar cloth form, and none in the 50 cents paper. Five hundred dollars a year for a suc-Reading and play have a ten times as much? How many twenty times as much? I will engage to entertain at dinner, at a round table year out of the royalty on any one of their novels, and to give them all they of putting off until to-morrow the work cloth copy of each of the works in is rather restless as to how business

-If one is not on one's guard, low-ared fortunes may lead to baseness of

Belford's Magazine.

-The days of December are shorter than those of August; but you can never make a schoolboy believe or feel

—There are people in this world who love to suffer for the pleasure they derive in moaning.—Philadelphia

Truth is the most powerful thing in the world, since fiction can only please by its resemblance to it.—Shafter

THE TIUMEN PRISON.

Description of a Forwarding Station

The Tiumen prison was originally built to hold 500 prisoners, but was subsequently enlarged by means of detached barracks so that at could accommodate 809. On the day of sour visit, as we were informed by a small blackboard hanging beside the office door, it contained 1,741. As we approached the entrance we were stopped by an armed sontry, who, upon being informed that we desired admittance, shouted through a square port-hole in the heavy gate, "Star-she-e-e!" (the usual call for the officer of the day). A corporal or sergeant with a saber at his side and a Colt's revolver in a holster on his hip, answered the summons, carried our note to the warden, and in a moment we were admitted to the officer of the day had been at his side and a colt of the system in the proposed and the system is depleted, the nerves shaky fit indirection or constitution first propounce. If the system is depleted, the nerves shaky fit indirection or constitutions sit is yellow, and the tofficer of the day). A corporal or sergeant with a saber at his side and a colt's revolver in a holster on his hip, answered the summons, carried our note to the warden, and in a moment we were admitted to the officen year. answered the summons, carried our note to the warden, and in a moment we were admitted to the prison yard. Fifty or sixty exiles and convicts were walking aimlessly back and forth in tropt of the main prison building, or sitting idly, in groups here and there on the ground. They were all dressed from head to foot in a costume of gray, consisting to a situation of gray. consisting of a visorless Scotch cap, a shirt and trousers of coarse homespun linen, and a long gray overcont with one or two diamond-shaped patches of black or yellow cloth sewn upon the back between the shoulders. Nearly all of them word leg-fetters, and the air was filled with a peculiar clinking of chains which suggested the continuous jingling of innumerable bunches of

keys.

The first "kamera" or cell that we entered was situated in a one-story log barrack standing against the wall on the left of the gate, and built evidently to receive the overflow from the crowded main building. The room was about 35 feet in length by 25 in width and 12 feet high; its walls of hewn logs were covered with dirty black with dried mud and hard-trodden filth; and it was lighted with three grated windows looking out into the prison yard. Down the center of the room, and occupying about half its. width, ran the sleeping-bench—a wooden platform 12 feet wide and 30 feet long, supported, at a height of 2 feet from the floor, by stout posts. Each longitudinal half of this low platform sloped a little, roof-wise, from the center, so that when the prisoners slept upon it in two closely packed transverse rows, their heads in the middle were a few inches higher than their feet at the edges. These sleeping platforms are known as "nares," and a Siberian prison contains no other urniture except a large wooden tub for excrement. The prisoners have neither pillows, blankets, nor bed-clothing, and must lie on these hard plank nares, with an covering but their overcoats. As we enterpd the cell, the convicts, with a sudden jingling of chains, sprang to their feet, and stood silently in a dense throng around the pares. "Zdrastvuitui rebiata!" ["How do you do, boys!"] said the warden. "Zdravie zhelaiem vasha vwisoki blagarodie" ["We wish you health, your high nobility"], shouted a hundred voices in a hoarse chorus. "The prison," said the warden, "is terribly over-crowded. This cell, for example, is only 35 feet long by 25 wide, and has air space for 35, or at most 40 men How many men slept here last night?" he inquired, turning to the prisoners "A hundred and sixty, your high nobility," shouted half a dozen hoars voices-George Kennan, in Century.

Some Triplet Maxims.

Three things to love-courage, tleness and affection. Three things to admire-intellect.

dignity and gracefulness. Three things to hate cruelty, arro

gance and ingratitude.

Three things to delight in—beauty, teachers and freedom. Three things to wish for—health, friends and a contented spirit.

Three things to like cordiality, good humor and cheerfulness.

Three things to avoid—idleness, loquacity and flippant jesting. Three things to cultivate good

ooks, good friends and good humor Three things to contend for-honor, country and friends. Three things, to teach-truth, in-

dustry and contentment. Three things to govern-temper ingue and conduct.

Three things to cherish-virtue, goodness and wisdom. Three things to do-think, live and act.-Farm, Field and Stockman.

-Culture is spreading. The other day a young lady of Texarkana, Tex., bought herself half a dozen big trunks full of finery, had them shipped to her address at a leading girl's college up North, and sent the bills to her fond father, who is a man of worth and substance, along with a telegram that she herself had taken the train for school, as she was "bound to have a fine eduestion.

-Another 1804 dollar, and evidently the one whose whereabouts so long puzzled numismatics, has been heard from. The coin is in the possession of a Pawtucket, R. I., woman, who was given it by her father in 1820 on her eighteenth birthday. He received the dollar as part payment for services in the war of 1812, and in presenting it to the present owner instructed her never to part with it.

-A Port Huron, Mich., woman who Strive to inspire your children with on the fly-leaf. One hack would be her coffin at a quarter-off sale and is

No remedy for sexual debility has ever been found that equals Dujardin's Life. Essence. It restores feeble powers and invigorishes the whole system. A simple trial will convince the most sceptical. Price, \$1.50 s bottle. All druggists.

THE QUESTION IS OFTEN ASKED What are Hamburg Firs?" They are simply stalling fruit cathartic, composed of vertices and fruits. They are a natural laxative

-It was not Goethe who said that ou can always tell the man who has gone to grass by his seedy appearance. Goethe was a brilliant philosopher, but there was some things he forgot to

sav until it was too late .-WHICH WAS IT? BACON OR SHAKES-

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Fifth—They stimulate the liver and carry off vitiated bile and other deprayed secretions.

secretions.

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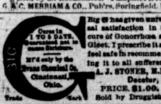


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