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We are the original manufacturers of portable Vapor Baths. We have, during the last ten years supplied thousands of our Baths to physicians, hospitals, sanitariums, etc. and we are now, for the first time, advertising them direct to the general public.

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Get one with a steel frame that stands on the floor. If a manufacturer does not show you a cut of a frame without the covering material, insist on seeing a sample of material before ordering. We make our own covering material and print it with a handsome "all over" pattern of Niagara Falls.

Get one with a thermometer attachment. Don't go to a bath that is too hot or not hot enough will be of no benefit to you.

Get one that you can return and have your money back if not satisfactory in every way.

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Vapor Baths are an acknowledged household necessity. Turkish, Hot Air, Vapor, Sulphur or Medicated Baths at Home, etc. Purifies system, produces cleanliness, health, strength, prevents disease, obviates Cures Colds, Rheumatism, Neuralgia, LaGrippe, Malaria, Eczema, Catarrh, Female Ills, Blood, Skin, Nerve and Kidney Troubles. Beautifies Complexion.

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The King-Jones Co., Toronto

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## W. N. TANTON

The Great George St Jeweler.

Hillsborough Skating Rink.

Special General Meeting.

In pursuance of a resolution passed at a meeting of Directors of the Hillsborough Skating Rink Company held on the 10th instant, a Special General Meeting of the Shareholders of the Company will be held on Tuesday the 20th day of December instant at eight o'clock p. m. in the Board of Trade Room in the Opera House in Charlottetown to take into consideration the late leasing of the Rink by the Directors, and to take such steps as they may deem "necessary in confirming the Director's action or the re-leasing of the rink" as asked for by a requisition addressed to the President and Directors.

A. A. BARTLETT, Secretary-Treasurer. Charlottetown, P. E. I., Dec. 12th, 1898

## Arithmetic.

Common School Arithmetic.

Wm. T. Kennedy, Principal of Halifax Academy, & Peter O'Hearn, Principal St. Patrick's High School, Halifax.

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## THE SPEED OF A SHIP

METHODS BY WHICH ITS KNOTS PER HOUR ARE MEASURED.

An Interesting Description of the Mechanism and Use of the Log, With a Truthful Red Sea Shark Story Attachment.

"How do you ascertain the speed of a vessel?" is a question frequently addressed to naval men, and an explanation will therefore probably be of interest to many readers. There are several methods, the commonest and most ancient being by the use of the "log." This instrument consists of three parts—the logship, the line and the marks. The logship is a piece of wood about half an inch thick and shaped like a quadrant, with a piece of lead let in round the circular edge to make it float perpendicularly in the water. It is slung by lines at each angle, the three lines being joined together about two feet from the logship. Two of the lines are securely fixed to the ship and the other has a bone peg at the end, which, being pushed into a hole in the ship, temporarily fastens it there.

From the point of juncture of the three lines a sufficient length is measured, generally about 100 feet, to take the logship well clear of the ship's wash. This is called the "stray line" and is marked with a piece of bunting. From the bunting is measured 47 feet 3 inches, and the line marked here with a piece of leather. Then another 47 feet 3 inches is measured off and marked with two knots, then another space the same length, and marked with three knots, and so on as far as seven knots. Halfway between each batch of knots one single knot is made. The log line is then ready for use.

The space between the knots is found from the simple little rule of three sum: As 3,600 seconds (number of seconds in an hour), 28 seconds (length of sand-glass), 6,080 feet (number of feet in a nautical mile); length of line required—which works out to 47 feet 3 inches.

To use the log four persons are required—two men to hold the reel on which the line is wound; the quartermaster, to hold the glass, and the midshipman of the watch, to heave the log. The last named puts the peg firmly in the logship and then gathers three or four coils of line in his hand, sufficient to admit of the logship being thrown well clear of the ship. He asks, "Clear glass, quartermaster?"

"Clear glass, sir!" comes the reply, and overboard go the logship and line, the reel rapidly revolving. Presently the middle feels the piece of bunting passing through his hand, and he gives the order, "Turn." The quartermaster turns the glass and watches the sand while one "reeler" holds the reel well over his head, so as to give the line fair play. When the sand has run out, "Stop!" cries the quartermaster.

The midshipman grasps the line, assisted by the other reeler, and looks for the nearest knot, finding a single one close to his hand. Then the line is hauled in, and four knots appear, which signify that the ship is going four and a half knots through the water. The jerk of the line draws the peg from the logship, which now floats on its flat side and is easily hauled in. When a ship is going over four knots, a 14 second glass is used, the speed being double that shown by the knots on the line.

Another method in use is the patent log. This is altogether mechanical and consists of a long cylinder with clock-work inside it and four fins on the outside. It is towed astern of the ship by a line made fast to a swivel in the head of it. As it is dragged through the water the four fins make it revolve, actuating the clockwork inside, which registers on a series of dials the number of knots run. This log has to be hauled in every time one wants to read it, but there is another kind where the fan is towed astern and the dial is a fixture in the ship. This is called a "cherub."

These logs are not always accurate, and are constantly verified when near land by cross bearings—that is, the bearings of two well known points are taken, and the position so obtained is marked on the chart, the time of observation being noted and the reading on the patent log. After an interval has elapsed the position of the ship is again taken by cross bearings, when the straight line joining the two places on the chart will show the direction of the course steered and its length the distance run. A comparison with the readings by patent log will give the error of the machine.

To finish here is a patent log yarn, as told by an old messmate. I give it in his own words: "When in the Crocodile in the Red sea, just after taking the reading one night at 8 o'clock, the quartermaster reported, 'Shark taken the patent log, sir!' I got another one over at once. At 9:30 next morning we stopped for half an hour. To amuse the ladies I tried for and caught a shark. On opening him we found our patent 'log, and,' he added gravely, 'strange to say, it registered the same as the one in use. The line had jammed between his teeth, the fan working all the time he followed the ship. He had swum just 122 7-10 miles.'—Navy and Army Illustrated.

### Cure a Cold in One Day

Take Laxative Bromo Quinine Tablets All druggists refund the money if it fails to cure.

## FANATICAL CHINESE.

SUPERSTITION RULES THE RACE FROM CRADLE TO GRAVE.

All Business and Family Matters Directly Controlled by This Unreasonable Influence, Which Makes Brutes of Its Slavish Devotees.

No race in the wide world is more controlled by superstitious notions than the Chinese. They enter into every act of a Chinaman's life, and their influence is more lasting than that of his religion. He cannot move hand or foot without their agency, and from the earliest moment of his life down to the last detail in connection with his burial their power and influence are the guiding motives of his acts. All business and family matters are directly controlled by superstitious sentiments, both rich and poor, young and old, being slaves to their force.

To the average Chinaman his religion is a mere negative factor in his mode of life, to be followed or disregarded at will, but no true son of Han dares to act otherwise than in accordance with the strict precepts of those spiritual powers which directly control his life.

There are some amusing superstitions connected with Chinese entertainments. A dinner party is an ordeal which once experienced is never forgotten. It consists of from 40 to 50 distinct courses and occupies the greater portion of a day. During the whole of these repasts and notwithstanding the endless variety of dishes served the invited guest retains the same plate throughout. The explanation of this strange custom is an old proverb, which has now become a superstition, that "he who changes the plates kills the housewife."

Chinese proverbs explain several of the superstitious notions with regard to women. It is considered unlucky for a woman to mix with the builders of a house or other edifice during its erection, and to avoid any possibility of one straying into the premises all approaches are carefully guarded by watchmen, and a fence is erected around the proposed building as soon as its foundations are laid.

The explanation of this is the saying, "Women mix ill with wood, and death lives in the house over whose foundations a woman has walked." There is a similar horror of the fair sex interfering with any public matter of national interest or in any business transactions where men are concerned. "Women tie knots," says the Chinese proverb. "Let them remain at home."

No funeral can take place until astrologers and professional fortune tellers have been consulted. These unscrupulous diviners decide the place of burial, and in the event of disagreement no final interment can take place. This accounts for the number of unburied coffins which are seen about the country districts in China. Sometimes the coffin is temporarily deposited in a temple or kept in the house of the heir of the deceased. Among the poor as often as not it is conveyed to some sheltered spot and covered with a mat.

When in course of time (by aid of additional fees) the diviners can report that all objections to final burial are removed, the funeral takes place amid rejoicing and profane excesses. The mode of propitiation generally prescribed by astrologers is the purchase of some stone or piece of iron, to which an elaborate ritual of prayer and sacrifice is made, or, if the client is wealthy, the building of a pagoda is suggested, in connection with which the mercenary fortune teller doubtless reaps a large commission.

The last species of superstition to which we will call attention forces us to place China among the half civilized and brutal nations. One of these superstitions is that the soul of a dying person takes possession of the bed and room in which the invalid is lying. To obviate such a curse as this the relatives of the dying person, as soon as they perceive his end approaching, forcibly remove him from his bed and place him almost naked upon a board. If by chance a man should expire in his bed, it, together with all the furniture in the room, must be burned and many stone-ments offered before the room is considered fit for habitation again.

Many strange and inhuman ideas are associated with the illness and death of children. If a child sickens and dies before the age of 12 years, its last moments are hastened by the horrible cruelty of its parents. So long as hope is possible the parents do their utmost to save their child, but as soon as the doctors abandon hope the child is stripped naked and placed against the outer door of the house. When the end has come, the corpse is thrown out into the street to be picked up by the passing dead cart.

The reason for this brutality is this: If a family loses a child before it has grown to maturity, its parents refuse to regard it as their offspring, but rather as some evil spirit who has worked its way into their home in order to bring ruin and misfortune upon it and them.

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DR CLIFT cures Chronic Diseases and Rupture at Ch'town, Friday, Saturday and Sunday. Call or send stamp for information.

## PLAYED A WAR GAME.

HOW THE BIG MAN FLEECED THE SUBSTITUTE BROKERS.

The Tricky Six Footer Worked His Physical Defect to the Limit and Reaped a Rich Harvest While the Opportunity Lasted.

During the civil war in what was then a pretty village of Michigan and has since become a city without losing any of its beauty lived a strapping six footer who looked as hard as nails, dressed well, talked smoothly and was set up like a soldier. He had no means of support visible to the naked eye in the village which he called home, but he would make occasional trips from which he returned with plenty of money and a fund of interesting talk about some section of the north. The people thought him a mystery, but he was a pleasant one, and curiosity never went further than to ask ingenious questions that were just as ingeniously parried. After his harvest was at an end the mystery explained himself without reserve, and no one expressed serious disapproval of the way in which his wits had won him his money.

"It was a simple case of diamond cut diamond," he laughed. "I've been taking fleeces from the fellow that went out to shear. I'm not an Apollo Belvedere, Diomedes or Samson in appearance, but I pass in a crowd as a fine specimen of physical development. The truth is that I'm a whited sepulcher. I was born with a defective heart and would not take three minutes of real violent exercise for all the money you could load on a freight train. I take things easy all along the line, and the engine keeps pumping up to requirements.

"When I could see the end of what property was left me, and it was not far away, I cast about for some light work to do and concluded to deal with the substitute brokers. There was no chance of meeting the required medical examinations, so I took another tack. Whenever I visited a place in my business, I'd manage incidentally to fall in with the broker. I'm better than a raw hand as a jollier, and I'd soon have some mutual friends as innocent parties in the play.

"When it came in naturally, I'd chaff the broker about his business and ask what kind of a soldier I'd make. He would either jump open mouthed at the proposition or chaff back under an impression that I would never think of going to war. In either case it would usually come to some kind of a proposition from the broker. Then the other fellows would guy me, intimate that I was a bluffer and wonder how I was to get out of the thing without a clear funk.

"Here's where my fine work came in. I'd demand a retainer, and I'd put it high enough just to make the broker think that I was trying to escape him. If he would pay me a specified sum down, I would agree to appear at the recruiting office the next day and offer my services, but I gave notice that I assumed no chances. If they would not have me, the broker must stand the loss. The idea of my being rejected always raised a laugh and only tended to confirm the broker in the belief that I was trying to escape him. When the doctor turned me down, I went into the dumps, became nervously timid, aroused the sympathy of those with whom I had become acquainted and snapped an order to the disgruntled broker to keep clear away from me.

"The best haul I made was in Pittsburgh. A coal baron there who could not well enlist and who had not been drafted wanted a representative in the army who would make a name honorable to that of the principal. He was after a big, handsome, intelligent fellow of whom he could be proud and put the whole matter into the hands of a shrewd little broker. I managed to meet him at the Monongahela House, and I worked around to the main subject in the manner I have described, but I could see that he was sharp and did not like to run any chances.

"While he went to dinner, after which we were to resume our talk, I went out and had a short conference with a huge truckman. When I again met the broker, that truckman insisted on bothering us and, after showing a proper amount of patience, I threw him half way across the office, and he went limping out, while all observers grew wide eyed in their wonder. I did not exert enough strength to throw a half grown boy five feet, but the truckman knew his business, and was paid \$20 for attending to it.

"That apparently cool courage and gigantic strength removed all doubt from the mind of the broker. I was the man he wanted, and he wanted me badly. I stuck out till I got \$2,000 as a 'retainer,' and then was rejected. I felt like giving the money back when the millionaire came around to console with me and tell how disappointed he was in not having me for a substitute, but I didn't. It would have been an admission that I was not in a legitimate line of business."—Detroit Free Press.

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