

Have a Soldier Estimate Distances.

It constantly happens that men are called upon to determine for themselves their distance from an object to be fixed. No assistance can be given, nothing but a stern reliance upon one's own judgment and the size and appearance of surrounding objects. Experiments abundantly prove that even the closest of recollections may be taught to estimate distances approximately from his base line to at least 2,000 yards away, and this by simple, rapid observation. Every soldier is supposed to have good eyesight, he therefore, after a little practice in sight estimating, learns the following facts:

At thirty yards the white of a man's eyes are plainly seen, and the eyes themselves to eighty yards.

At 100 yards all parts of the body are seen distinctly, slight movements are perceptible, and the minute details of the uniforms can be distinguished.

At 200 yards the outlines of the face are confined and the nose of brass buttons look like yellow spots.

At 300 yards the buttons are no longer visible.

At 400 yards the face is a mere dot, all movements of the legs and arms are still distinct.

At 500 yards details can no longer be distinguished, though the bits of a sword, if the light be strong, can be counted.

At 600 yards the men are regarded as a mass, no count can be made, individual movements distinguished.

At 700 yards a line of men may resemble a round ball; the direction of their march, however, can be readily determined.

At 800 yards infantry can be distinguished from cavalry.

At 900 yards a mounted man looks like a mere speck or dot.

The above rules are applicable in the daylight only to smooth, open country, but after a little practice will apply also with equal force to rough, broken country as well.

KASKINE THE NEW QUININE. GIVES GOOD APPETITE, STRENGTH, QUIET NERVES, HAPPY DAYS, SWEET SLEEP. A POWERFUL TONIC. SPECIFIC FOR MALARIA, RHEUMATISM, NERVOUS PROSTRATION, and all other diseases.

CARTER'S LITTLE LIVER PILLS. CURE SICK HEAD ACHE. A HOAG'S COGNAC AND THROAT PLANTER.

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Beautiful Chimes. China's consists of a series of three to five gongs, set either on standards, bands or straps, having previously been tuned and sealed by a tuning fork, xylorphone or lahar.

The bell manufacturers are not confined to any particular pattern; they are constantly making new designs to meet the demands of new uses.

It is almost impossible to enumerate all the kinds made or to state their uses. Many gong bells are used in the most prominent of which is the new gong rattle. This consists of two small gongs with jinglet attached to a wooden handle.

Most of these toys are made of tin or copper, the bells being formed from the best known metal and finished in the finest silver white.

Special attention is given to the manufacture of call bells, such as are used either upon the desk or table. The gong is used with but little change in design. There is a great variety of design in the bells.

Sleigh bells are divided into three classes, round, open and chimed. The round bells are riveted to leather or metallic caps, which hold from eleven to forty-eight bells, of sizes varying from three-quarters of an inch three inches in diameter.

Of the use of the small bell and its adaptations to the needs of man to day much could be written. On every hand is witnessed its employment in the home, office, field and street. It is a great helper to man in ways that are innumerable.

Love of the Beautiful. Place a young girl under the care of a kind-hearted woman, and the unconscious tendency to self-gratification, to fondle, to place a boy in the establishment of a thorough-going, straightforward business man, and the boy becomes a self-reliant, practical business man.

How Divorces are Started. "It is easy for a married couple to quarrel and bring themselves to the point of a divorce," said a well known New Yorker the other day. "After I had been married three months I came some home one night to tell my wife that business would keep me away from her for the next twenty-four hours. She was very girlish, and with a reply she gave herself a little thrash, and expressed her feelings in an exclamation of unmistakable joy. Deeply pained, I said to her that I had never supposed she desired my absence enough to grieve with joy at the mere proposal of it. Many a man would have gone off angry or darkly suspicious. Instead I questioned. 'Why, you goose,' said she, 'when you said you were going away one thing popped into my head to the exclusion of everything else. That was, now he's going away and I can eat some raw onions with salt and vinegar. That was all. I have been dying for raw onions ever since our wedding.'"

ANY ONE CAN DYE. A Dress, or a Coat, Any Color. Ribbons, Feathers, Yarns, Rags, etc. FOR TEN CENTS.

Baby Portraits. HUGHSON & SULLIVAN'S DANDY WAGON.

HUGHSON & SULLIVAN'S DANDY WAGON. THE AMERICAN LIVE-STOCK WAGON.

WHAT WAILS YOU? Do you feel dull, languid, nervous, irritable, and indifferently to all pleasures, both physical and mental?

THE STERLING CO. THE STERLING PIANOS. ROBERT EVANS. UNDERTAKER.

ROBERT EVANS. UNDERTAKER. Bodies Embalmed. STEEL WIRE FENCE.

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Cleanse the System. DO IT NOW. Paine's Celery Compound.

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Science and Industry. The amount of lumber used in this country is enormous. It requires 1,400,000 feet for cigar boxes alone.

The discovery of the cellular structure of plants is credited to the naturalists of the seventeenth century.

White lead is manufactured by the new Hattway method direct from the ore in the space of a few hours, while by the old process it was a matter of several months.

The French chemist, who discovered aluminum, has now invented a process for treating steel by which steel bronze and bell metal can be made at fabulously low prices.

A cigarette-smoking boy will not make a strong man. He will have impaired digestion, small and poor muscles, irritable temper, and a lack of capacity for sustained efforts of any kind.

Mr. Edison says: "Undoubtedly the next great discovery will be some method of getting electricity from coal direct without the intervention of boilers to make steam, steam-driven engines to run dynamos, which in their turn, with the intervention of magnetism, do work, whether in operating motors or in making light."

The Queen of Italy has re-established the manufacture of Barano lace. The industry had almost wholly died out.

The walnut that grows in Persia, Asia Minor, and Ceylon, makes the costliest of all cabinet woods. The veneers are cut to one hundred and twentieth of an inch in thickness, and sometimes as thin as 1/15 of an inch.

Algarobilla is a tanning material that is used in the Argentine Republic, South America, and gives satisfactory results. English Tanners have experimented with Algarobilla and some of them employ it to-day in their tanneries in England.

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Educated Africans. A remarkable story is told in a recent issue of the Paris Societe de Geographie.

As is well known, the Queen's habit of keeping rooms which have been occupied by deceased relatives is a well-known fact.

The World's First Sovereign. The name and date of the reign of the first sovereign of a nation are in the darkness back of authentic history.

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