## to be inter

trying time for most ally so for delicate a grippe and pneu. m easy victims. ch cold easily? It ir system is not in a esist disease. You nate if you escape

disease. The right lature by toning up e. Such a tonic is r Pale People. By g the nerves these health, and make

leve that Dr. Williams as so weak that I was ymptom of going into adaches and nerve exe of months, and they

box or six boxes for Co., Brockville.

RN ARTILLERY.

Some Excellent Lessons in uth African War.

n who are closely watch-South Africa declare that story was artillery more wed than in the present eports of experiments dern French field gwi with infantry fire, show nch batteries possess, at to 1,200 yards, the manof a full division of inestimate holds good, ound, whether based on f rifles which a division ment put in line, or the amunition carried by the artillery respectively. at comparative date the yed 100 infantry and a field guns of ninetyiber. The infantry fired half sections and indemilar targets were emranges varied from 800 s. The artillery used rting at 800 yards and e ranges the killing

artillery were found at of infantry, rising t 800 yards to sevenards. field guns, it must be ry efficient in sahpnel is the shrapnel fire of Creusot guns that the encountering in South

ench gun throwing a bout 20 pounds' weight, apnel balls, will, at a gards, place 50 per cent lls in a rectangle meaby 4.2 yards. The field ctiles carry about

ALL BALLS.

reatest artillery authrn times, the late Colckenbury. Director of ollege in England, deet English officers must the fact that the Engnever met in the field rided with well-served nor has good shrapnel d gwas in large numeen seen on the field of man presented one of ioes of really efficient and in that engageshes were mowed down 00 yards. Omdurman, fought after Brackennt was made.

e lessons of Brackenave been forgotten by ers in South Africa, clearly foresaw a few sly to happen in certain been fully borne out ements. Brackenbury Prince Kraft, of Gerillery must be pushed with infantry. But arned artillerymen to the protection of the action of the Tugela tillery was lost owing on of the teams.

s fast gaining ground ery must carry light not to be driven from fire of a few sharp cenbury argued for years ago. The acer infantry and shrap ding additional emecessity for such pro-

CAUGHT NAPPING. ut this war in South

lect you personally? Half a dozen girls have was going to make diaensive. Maybe it was nagination, but every med to have a 'now-isengagement rings look

THE PROJECTILES AND EXPLOSIVES NOW BEING USED.

of Gans Are Classified and Defensive Works Are Known-Some Interesting fac . About Watters That Are Mention ed Daily in the South African De

There are many more or less technial military terms brought into promnent and constant use by the war, the space meanings of which are probably by no means clear to the average civihan. There is lyddite, for instance. This terrible substance is practically identical with the French mefinite and the German soburite, the base of all three being picrite, which is in its turn, a preparation of picric It derives its name from the village of Lydd, in Kent, where was conducted the series of elaborate experiments which resulted in its adoption as the "high" explosive of the British army. Lyddite is not used for charging shrapmel but is tightly nacked into thin cylindrical bombs of forged steel. These burst into hundreds of fragments, which fly in every ed upon at a less distance than 1,000 deadly within a twenty-foot radius. PACKAGES OF DEATH.

Six different kinds of projectiles are known to modern artillery officers. palliser, segment and star shell. Only the three first-named, however, are low, elongated, conical projectile, havfor is filled with cordite. It is used and more extended. against fortified or intrenched camps and towns, and against masses of troops in the open. Shrapnel, on the other hand, is used almost exclusively against troops advancing in extended Very Much the Same Methods Used As in order. The fuse, as well as the burstspread out fanwise, doing fearful execution. Case is only used at close served-meat can, filled with a number of bullets. The shell is burst and the ballets scattered by the gun's discharge.

VARIETIES OF GUNS.

tish at Ladysmith were spoken of as barley has been lost? for it is a quick firer, a breech loader, and can take indifferently shells charged with either lyddite, cordite, or ordinary black powder. Its larger sister, the 6-inch quick-firing gun, is and cannot be fired so rapidly.

SAFEGUARDING A POSITION. A permanent position, once taken up, ed with artillery, but shell fire quick- turbed. borate system of wire-entanglement. tribute to his hero. ment offers a well-nigh insuperable barrier, while even to infantry it proves sometimes very annoying, es- PROFESSIONAL DINNER TASTERS. tion. pecially at night-time, and when, as constructed by the Spaniards in Cuba, it is made of barbed wire, it is the

RIFLE PITS. Nearly always, too, the defenders of

bags.

beleaguered camp or garrison construct both shalter trenches and rifle pits. A very shallow trench will render a man, lying down, invisible to the distant enemy, and a very slight earthen parapet is sufficient to protect him from the effects of shrapne! and rifle fire. Indeed, it has been ascertained from actual experience that the penetration of rifle bullets into newly-excavated earth does not exceed 24 inches at 500 yards, and three feet of earth may be considered safe at any range. A typical shelter trench is formed by digging a shallow ditch and piling in front of it the earth excavated. A rifle pit is dug in a similar manner, but it is isolated in place of being continuous, and is a deeper and more carefully constructed piece of work. A shelter trench takes one man half an hour to excavate; a rifle pit occupies two men for one hour.

MENTIONED IN DISPATCHES. This still constitutes a very great honor, and used to be even greater in days gone by. The General in supreme command, when sending home his reports, selects this officer or that for special commendation, either on account of his valor, his ability, his energy or some other distinguishing trait. The report is in due course published officially, and a synopsis of it also appears ever afterward in the 'Army List" opposite his name.

An ordinary reconnoissance may be carried out-by a party of ten or dozen unmounted men, or by as few direction with incredible velocity. The as two or three cavalrymen. Its object bursting of a large lyddite shell is to learn, as far as possible, the strength and disposition of the enemy. was to ruin England both by land and Hastings, had vastly increased her posmeans almost certain death to every A reconnoissance in force is a far more sea, but especially to wrest from her sessions in India. She rose greater than living thing within 50 yards' radius, serious and elaborate affair. A bat- her maritime supremacy. Spain underwhile absolute safety cannot be count- talion, a brigade or a division- according to the enemy's presumed took to deprive England of all her strength-marches out in battle ar- trade with the Spanish dominions, in The fumes given off are ray, but without any intention of giving battle. It often happens, however, that such a reconnoissance develops, against the wish of the General return engaged herself to support commanding, into a very serious en- Spain upon the sea and help her to

gagement. A cavalry screen is an extended line They are common shell, shrapnel, case, of vedettes, mounted sentries, which fulfills the double purpose of obtaining early and accurate information regarding the approach of an enemy, present war. Common shell is a hol- the force it covers. A cavalry screen usually consists of one or, at most, two regiments, but where very large which ignites on impact. The inter- are, of course, proportionately denser

ARITHMETIC BEFORE MOSES.

five and thirty seconds after it has discoveries in Egypt is a papyrus left the gun. It should explode, by in excellent condition, dating from a "Directions how to attain the knowquarters. It is merely a hollow me- ledge of all dark things," proves beof the elements of arithmetic.

capable of throwing a steel shot, shall receive one-eight of a measure herself. weighing three quarters of a ton, to less than the one before him. Anotha distance of nearly 12 miles. Guns er example given is: There are seven

terior of the bore at the muzzle. This area of a circle, attempts at squaring turning a retreat into a victory,

A LITTLE HERO-WORSHIPPER.

eous affection.

laager," which means, in plain Eng- chief among the naval heroes of Eng- vasion of England. where the attacking force is unprovid- six years has remained there undis- fleet under De la Clue.

The latter is constructed of telegraph The rules forbid the encumbrance All the West Indian possessions of second time to Colonel Francis Lean. wire, crossed and recrossed, and fast- of the stones by miscellaneous offer- France were taken from her, and Spain ened firmly to pointed stakes driven ings, but the verger stood by and was despoiled of Cuba and the Philip-Into the ground at a height of about watched the offence committed, and pines. Britain was everywhere trium-18 inches. To the advance of cavalry the authorities have never ordered this phant, and when the peace of Paris

A curious profession for a woman is that of dinner taster. She is a proant, and the compensation ample. America, whilst every other European islands to which they belong.

GREAT BRITAIN HAS FACED SITU-ATIONS FULLY AS GRAVE.

he Empire Has Often Been on the Point of Disruption, But Has Heretofore Em erged With Renewed Strength and Prestige From Every Conflict.

A coalition of European powers against Great Britain is threatened in case of either victory or defeat in her war with the Boers, and there are many straws which seem to show that the wind sets in an unfavorable quarter. It may be that at last this great power, vested in a little island, has reached its zenith and entered upon its inevitable disintegration, as al great nations have done in the course of time, but the doughty English have faced some formidable combinations of foes in years gone by, and have seen dark days when her highest Ministers have despaired of preserving their

The first of these coalitions was what is known as the "Family Compact' between the branches of the house of a fortress, .Gibraltar was saved. Bourbon, by which France, Spain and America, and transfer these commercial advantages to France. France, in recover Gibraltar.

A FORMIDABLE ARRAY.

In the war which commenced in 1739 likely to be used extensively in the while preventing him from surprising fore the close, France, Spain, Prussia, Bavaria, Sweden, and Sardinia. But she held her own against them all, althe same time the Jacobite rising of 1745. When peace was signed at Aixla-Chapelle, on October 18, 1748, they tain triumphed over all her foes. came out even, for while England surrendered all that she had won by sea, France and Spain restored all their conquests on land.

But that peace only afforded a brief ing charge, is situated at the base of There was a ray of vindictive com- breathing space, and then came the the shell, the whole interior of the fort for the modern schoolboy in the Great Seven Years' War, when Engforward part being filled with from fact that for thirtysix hundred years land had to fight for her empire both 200 to 600 half-inch bullets, according his schoolboy progenitors have been in the West and the East. France had made up her mind to oust them both to the caliber of the gun. The fuse worried by just such desperate prob- from America and India, and again is a "time" one, and can be "set" to lems in arithmetic as annoy him most. Spain was her ally. Disaster after disexplode the shell at any time between Among the recent archaeological aster fell upon England. The Duc de Richelieu captured from them Port Mahon in Minorca, then believed to be the key of the Mediterranean. Admirrights, about 20 or 30 yards in front period about 1700 B. C. This roll, al Byng, who should have relieved the of the enemy. The bullets then which has a long heading beginning, place with a British fleet, hung back, did nothing, and was shot for cowardice. The Marquis of Montcalm was everywhere victorious over the redcoats tal canister, in appearance not un- youd a doubt that the Egyptian of in America. The British General, Bradlike a small oil-drum or a large pre- that time had a thorough knowledge dock, was routed and killed. In such desperate straits was England that the Numerous examples show that their usually impassive Lord Chesterfield, in principal operations with units and the House of Lords, exclaimed: "We fractions were made by means of ad- are no longer a nation," and he only dition and multiplication. Subtrac- echoed the thoughts and fears of the rison or siege. The former are, gen- their present form, but correct re- it was that William Pitt, "the Great them all and correspondence with slender legs and then she placed be-Guns are either mountain, field, gar- tion and division were not known in bulk of his fellow-countrymen. Then erally speaking, the lightest and sults were obtained, nevertheless. Commoner" came to the rescue of his smallest of all; the latter are the Equations are also found in the country. "I know," he said on first smallest of all; the latter are the paperus. Here is one which brings entering the Ministry, "I know that heaviest. Among the former are paperus. Here is one which brings entering the Ministry, and all trade in English goods was Le Fontain travelled miles and miles "four-pounders"-that is to say, guns the Egyptian schoolboy home to us: I can save the country, and I know throwing a shot of four pounds' Ten measures of barley are to be di- that no other man can." And he spoke weight. Among the latter are found vided among ten persons in such a the truth. No sooner was his hand gigantic 110-ton pieces of ordinance, manner that each subsequent person upon the helm than the ship righted

THE TIDE TURNED.

are officially classified according to (a) men, each one has seven cats, each cat | Victory followed victory in quick the weight of the projectile; (b) the has eaten seven mice, each mouse has succession. First, came Minden, where Weight of the gun; or (c) the diameter eaten seven grains of barley. Each six regiments of English infantry, of the bore. Thus, the pieces of naval grain of barley would have yielded mistaking the order given, advanced ordnance which were used by the Bri- seven measures of barley. How much in line against the whole French cavalry, rolled back charge after charge, 4.7-inch guns, meaning, of course, that | The papyrus also contains calcula- with their volleys, and in a single they measured 4.7 inches across the in- tions of area, the calculations of the hour changed the fortunes of the day, particular type of gun, by the way, the circle, and finally calculations of have seen," said the French General, something will occur is almost ceris about the best all-round weapon, the cubic measurements of pyramids. Marshal de Contades, "what I never thought to be possible-a single line of infantry, break through three lines of cavalry, ranked in order of battle, and tumble them into ruin."

Close upon the heels of Minden came but the simpler offerings of spontan- the sea rolling mountains high, got

deadly splinters of iron and wood worsted letters: "In loving memory which extinguished all French dreams life of her father, and was at one wime among the defenders. Trained troops of dear Lord Horatio Nelson, 'Thy will of empire in the far East, while from well thought of as a comedy actress

Montcalm at Quebec. a properly-constructed wire entangle- true "In Memoriam," to be removed. was concluded in 1762, while compelled ed, she was left in excellent condi-

HER CRITICAL HOUR.

paring dishes. The duties are plea- Holland and the revolted colonies of inaccessible parts of the continents or one seventh should be the length of

Power stood aloof from her-all showing their teeth and snarling. Single-handed, Britain faced the

world, with Ireland, too, in semi-rebellion, crippling her hands at home The fleets of France, Spain and Holland threatened her supremacy on the sea. The surrender of Cornwallis to Washington at Yorktown, gave deadly blow to her military prestige. Spain would listen to no proposals for peace unless Gibraltar were surrendered her. France made it a first condition of negotiation that all the British possession in India, except Bengal, should be handed over to her. The American Colonies would hold no par- the mountain side to a patch of yelley with Great Britain unless she acknowledged their absolute independ

Stripped of her colonies, robbed of her rule in India, deprived of her supremacy on the sea, what would have been left of the great world empire n which Britain had prided herself

And then came the turn of the tide.

Rodney, the greatest of England's sea sings next to Nelson and Blake, me the Spanish fleet, nearly twice as large as his own, and out of twentyseven sail of the line only four got back, battered and haif sinking into Cadiz. Then, after standing a siege of three years against the most tremendous armament ever arrayed against Finally, on the 12th of April, 1782, the two Sicilies bound themselves by fleet under the Comte de Grasse, in the sketch instead of a box of butterflies an alliance, the main object of which West Indies, and thanks to Warren home to England. Such a long wait

FOES THAT NEVER SLEEP.

the third coalition.

The fourth coalition against Britain was in 1797, when France, Spain and Holland united to drive her from the little sum of \$575, all my own, and seas. But Sir John Jervis, afterward Earl St. Vincent, gave the Spaniards at Cape St. Vincent such a thrashing life. That was my beginning, and I as they had not had since the Arma- was always on the lookout for butda. Admirai Duncan settled old scores with the Dutch once and forever at Camperdown, and annihilated the England had arrayed against her be- fleet which was to have covered the invasion of rebellious Ireland. Nelson ables, but is her nursery for beetles, swept the French Hag from the Medi- What appears to be unsplit stove wood terranean in the battle of the Nile. Sir Sidney Smith saved Syria from Naing at its head a percussion fuse, armies are in movement the screens though she had on her hands at poleon by the heroic defence of Acre. Sir Ralph Abercromby crushed the and in each piece are different species (le of Alexandria, and once more Bri- ing their way out, and lay their eggs

But the snake was scotched, not killed. In 1801, they had the fleets gets to the surface I put it back " of France and Spain united against she said. "The most valuable one? It them once more, while the Czar Paul all depends upon the demand. A beehad formed a great naval confederacy tle is worth just what I can get for in the north, in which Russia, Den- it. Dr. Le Fontain, who came out from mark and Sweden were to work to- France to study the insects of Caligether with France and Spain for the fornia, came to our house by chance, destruction of England's empire of He did not tell us who he was, merely the sea. But the prompt attack upon that he was a stranger passing Copenhagen and the complete des- through the country, but when I chanctruction of the Danish fleet knocked ed to see him before dawn, creeping the scheme in the head.

without Nelson, who met that vast fleet at Trafalgar and shattered it, the sea from that day to this.

and he played it at his famous Ber- you will be disappointed." lin decree of November 21, 1806, when Englishmen was pronounced lawful entirely prohibited.

Britain retorted with reprisals, in a similar spirit, and these brought about, as Napoleon had foreseen, wair with America. But though the wonderful little Corsican had Europe at his feet, and could sway it as he willed, his "Continental System," as he called it, failed. Russia doggedly refused to enforce it strictly, and brought about the campaign which ended in the fatal retreat from Moscow and the overthrow of Napoleon. What shall happen next is more how to make what we called a series. than prophets can foreiell, but that

THE LATE MISS MARRGAT.

The late Florence Marryat was in-The most touching memorials made the great naval triumph of Quiberon, teresting, not only for her own achieveheavier projectile, but, on the other by hands are not the statues, tablets where Admiral Hawke, on a lee short, ments as a novelist and an actress, hand, it is infinitely more cumbersome and inscriptions erected over the dead, in the midst of a winter gale, with but also as a link with the literary between the French Admiral and the past as the daughter of our most clasharbor for which he was running, and sical writer of sea stories, Captain In the crypt of St. Paul's cathedral simply wiped out him and his fleet. Marryat. She was his sixth daughter, various ways. The Boers "go into in London lies buried Lord Nelson, vasion of England. Then away in Lagos Bay the old taste for books. She was married at lish, that they surround themselves land. Leaning against the marble tomb Cornish sea dog, Admiral Boscawen— the early age of 16 to Captain Ross the belt. It was there I found my beewith a sort of zeriba, or wall of wag- is a small square of perforated card- "Old Dreadnaught," as his sailors Church, of the Madras Staff Corps, and ons. This is an excellent defense board, worked as a sampler, which for called him-smashed up another French her first novel, "Love's Conflict," was published as long ago as 1865. Miss From India came the news of Plas- Marryat took an intense interest in ly plays havor with it, besides sending It bears these words, spelled in sey and the marvelous trium; hs of Clive the subject of Spiritualism, wrote a rely principally upon earthworks, be done," and was brought thither across the Atlantic was borne the welsupplemented by a more or less ela- by a child whose heart was in this come tidings of Wolfe's victory over ish provinces and America with her own company. She was married a

RACE OF DWARFS.

to give up much that she had covet- pines, contains one of the recognized though it means dollars." races of dwarf men, the Aetas, whose average height is only four feet eight The next coalition was a still more inches or four feet nine inches. They formidable one, the most terrible com- dwell among the mountains in the in- weigh 138 pounds and be 5 feet 5 inches duct of Parisian refinement, and bination of foes that Britain has ever terior of the island, and are allied to tall. She should measure 5 feet 5 in-Works are usually strengthened by spends a portion of each day visiting had to face. In the war which began the Ray or Rangal It is remarked that the remarked for gabious—cylindrical baskets having houses and tasting dishes intended for with the American Revolution, and in the Bay or Bengai. It is remarked to the tip of the other when the arms neither top nor bottom—and sand dinner. She suggests improvements, ended in 1783, England saw, marshal-by a recent writer that all of the are extended. The length of the hand and shows the cook new ways of pre- ed in arms against her, France, Spain, dwarf races survive only in the most ought to be just one tenth of this and

May Yeomans, an English girl, who settled with two brothers in California, has developed a profitable industry in catching butterflies. She had some knowledge of butterflies when she went there. One day a flock of yellow pasy-like butterflies hovered a moment over her and then flew up low honeysuckle. She followed the butterflies up the steep mountain side She thought she recognized them as species known only in the higher Alps, and very rare and valuable.

"When at last I did get one in my hands I was sure it was the very kind," she said in telling about her new business. "I was too excited to wait till morning, which is the best time to catch butterflies, because they are sluggish then in the cold, damp foliage. I caught six before night, and the rest of the flock in the morning. I pinned one out carefully and ketched it in water color. I had to be saving of my postage, so I sent the as it was! And fancy my delight when I had word at last to send all the ever after that war. And so ended butterflies to London. You would never guess what they offered me for them-\$25 each, and as there were twenty-three of them I had the tidy the first money I ever earned in my terflies. With my money I bought ten

Miss Yeoman's cellar is not for eatlies in rows on the floor. Each piece has been split, but tied together again, French army in Egypt, at the bat- of beetles. They eat the wood, makin the wood.

"I keep watch, and when a beetle with a candle in his hand under the The last naval coalition against pine trees I knew he must be after Great Britain was that in which Na- insects. He was in raptures over a poleon massed the fleets of France and beauty he had found, and when I told Spain in one mighty armament to sweep! him about my butterflies and showed England forever from the seas, and him what I had, he forgot all his Englay her shores open to the great army lish and rhapsodized in French. He of invasion which he had gathered at taught me a great deal about heetles Boulogne. But therein he reckoned and told me of a certain one he was most eager to find in California. He believed it was here, though he cou'd leaving Britain undisputed mistress of not find it. It had been found only in Italy, and had almost disappeared One last card Napoleon had to play, Ah! You had better not look at it

She poked about in a box of twigs, he declared the British islands in a and produced what seemed a most orstate of blockade, and prohibited all dinary little black bug, with long,

larger than a pin head. "The tiny one is the one which Dr. to find and could not-I found it. The other is the beauty he caught under the pine trees. You understand, a collection of beetles is not complete without all the different species. Some are very common, but others are most difficult to find. Dr. Le Fontain made me a sketch of the beetle he was looking for, and then we went out to find a mate for the beauty he had caught in the morning, for where one is, more are sure to be. We found four and they were the ancestors of the ones I have here. He showed me That is, a butterfly or a beetle in all its stages from the egg to the perfect creature-each stage shown by a specimen and tacked in order on a card. I always make dates as to time each stage requires and food and where the life was lived. He was so kind and interested I was delighted when at last I found the beetle he wanted. It was three summers later and I made a long journey for it. I had wanted for so long to go back to the Redwoods we passed coming up. You stopped in the woods and know how that silence of the great trees haunts one who has once known it. Brother Tom and I made the journey on horseback, and camped a week right in the heart of tle. I carried a white sheet along and spread it on the ground. Taking up an armful of dried pine needles, l shook it over the sheet. If any of the fallen particles scuttled off I knew it was an insect, and one of the scuttling specks was my long-wished for, muchdesired beetle.

"The Indians know about butterflies, and know where to find them and they are the only ones who have ever helped me to any extent except a Chinaman. I have a great respect for Chinamen and Indians; they see things which few of our own white The Island of Luzon in the Philip- civilized men can comprehend, even

A PERFECT WOMAN.

A woman of perfect figure should