[From the Household Words.] | 20774 51 THE BRITISH MILITARY SERVICE:

A practical work has just been compiled by the joint labors of several experienced artillery officers, from which we glean a variety of facts that may prove interesting in reference to the great events of the last few weeks.

The most destructive and scientific arm of the service is horse, or flying artillery-the performances of a troop of which are sometimes astonishing. A battery of horse artillery is, in fact, a beautiful machine, composed of a great number and variety of parts. Say it is a battery, of six nine-pounder guns, with their concomitants. It is walted upon by one hundred and ninety men and one hundred and seventy horses-augmented, during the present war, to one hundred and eighty-two horses.

Among the men we find six officers; that is, the captain of the troop, a second captain, three lieutenants, and one assistant-surgeon-there being no want of medical perienced staff-sergeants, and thirteen other non-commissioned officers. The gunners and drivers form the greater portion of the privates, amounting to about one hundred and sixty men. The residue is made up of two trumpeters, to transmit the signals which are given to them by word of mouth from the officers; a farrier; four shoeing smiths (each horse requires twelve sets of shoes a year); two wheelwrights; and two collar-makers, with some others. Of the horses, two each are allowed to the officers; there are four to spare; and the rest are attached, with their riders, to the nine-pounder guns for firing solid which accompanies them; the ammunition wagon, the store limber wagon, the store cart, the forge wagon, and the rocket and spare gun carriages.

tion for immediate use, and which, like the tender to a swingle-trees, to which the traces are fastened, a prolonge or drag-rope, port-fire, spare sets of horse-shoes, tent poles, pegs, picket-posts, reaping-hooks for cutting forage, mauls, camp-ketiles, blankets, and corn-sacks-all, of course packed in the most perfect apple-pie order.

Among the contents of the various boxes attached to so on-are corkscrews, files, funnels, fuse-boxes, knives, linch-pins, wallets, pincers, saws and a setter, scissors, match, and fuse-bags, with other inflammables. Close to the gun are boxes containing a slow-match, a set of priming-irons, a tin-primer-a gun-lock, ten flints, two punches, two spikes, a sponge-head for the gun-cleaner, So much for the gun-carriage and limber.

appliances for mowing down "good tall fellows" in the ter when caused by infantry. most decisive manner. The very sight of these would necessaries and light baggage. The forge-wagon carries for ordinary armies, in modern times, fifteen miles is smiths' tools, bellows, iron, shoes and coal.

sides a rocket-wagon. Twelve-pounder rockets are des- | be done on extraordinary emergencies. which ten or twelve horses are required.

have to be unlimbered, loaded, pointed, fixed and limbered | equal a mile. up again. A ricochet fire should be tried as much as possible; that is, the shot should be made to graze the surface sometimes happen with the best regulated armies-and at a ground-hop, and then fly off again-like a boy play- must often happen in armies under red tape rule, in which ing at ducks and drakes in the water. It will sometimes | the men are governed by the general, their food by the hundreth part of the range of the shot.

of the man and his appointments is reckoned at two hun- great secret of health where fever and ague are prevalent. beast. Troop horses are not altogether teetotallers. They too; for not a jot of the juice of the meat is lost. find a wine-glass of spirits in half a pint of water a very a knob of clay mixed with it softens it.

Six horses with a nine-pounder can march four miles in ing for periodical halts. The trot is at the rate of seven unites, and the gallop at eleven miles an hour.

never dies of old age," sounds like a cruel doom; but it is | venient. true that he generally dies by the hand of the executioner,

cription of the steed ridden by that mad wag, Petruchio.

rups of no kindred; besides, possessed with the glanders, serves to make the parapet; as in planning a railway, the his guides insisted was impassable, was rather puzzled, swayed in the back, and shoulder-shotten."

which mules and oxen are also found useful; the latter, defensive as that of the musket and bayonet for the offen- communication between them. especially, for heavy draught in a rugged country. The sive operations of the army. An exception is, howtwenty hours, and carry six to ten hundred weight. trees in the rough state, are dispersed in all directions. aid for such an important arm. Then there are two ex- Camels are important assistants in Indian warfare, and they have been found of great use in the Crimea. Cattle eighteen feet, and the weight one hundred and forty employed for the conveyance of baggage are technically pounds; the gabion is a coarse basket, a foot and three- a prompt and safe emetic. called bat (sounded "baw") animals, just as officers' ser- quarters to two feet and three-quarters high, weighing, vants are styled "baw" men.

learn, among other things, that "a gentle slope is the most tempore walls of batteries, made on the same principle as advantageous ground to have in front of a battery;" and the field-works. It is the proper business of the sappers that confity to one hundred and fifty yards of soft, marshy and miners of the engineer department to construct such ground, where the enemy's shot would sink; gullies or batteries, and it is usually performed at night-time, that ravines crossing the enemy's fire at right angles, with a the men may be less exposed to the enemy's fire. Work- the other eight, amounting to eight hundred and ninetyterrace of six to ten feet elevation, about twenty paces in ing parties are at the rate of eleven to fourteen per gun, shot; the twenty-four-pounder howitzer for firing shells, front of a battery; are all good obstacles to the enemy's assisted by voluneers from the rest of the army. In the regiment of cavalry numbers two hundred and seventyfire." This almost describes, verbatim, the best points of sieges of the Peninsular war, next to the sappers, the one horses, or three hundred and sixty-one horses in the the Russian position above the Alma.

is a long one. Round the gun and limber (the limber is judged of in warfare, are set forth by the same authority. the hinder part of the gun carriage, containing ammuni- It is calculated that if the enemy's cavalry are one thousand yards off when they begin to move, they will take locomotive engine, can be detached from the trail of the about seven minutes to come up-first at a gentle trot, cun-carriage), are placed felling-axes, bill-hooks, grease- then at a round trot, and finally at a gallop; and, during pots, repes, spades, pickaxes, buckets, lifting-jacks, this interval, each gun can discharge at them, with great precision, ten rounds of round shot and four of case shot (that is, shot put up into a cylinder), or about one round every half minute. This is exclusive of the fire of the infantry with their small arms. The effects of a steady fire may be instanced by what took place at Dresden under Napoleon's eye. A body of eight thousand splendid Auseach gun-carriage-near-box, off-box, middle-box, and trian cavalry dashed down an easy slope at the Frencha terrible sight to a young recruit; but on this occasion they were met by the Emperor's Old Guard, who were used to needles, and a homely bale of worsted; accompanied by it. They reserved their fire till the enemy were close upon soild shot, cartridges, shrapnel-shells, bursters, quick- them; and, when they did fire and the smoke had cleared away, four thousand of that immense host were on the ground, either killed or dismounted by the death of their

At two thousand yards off a single man or horse looks and thumb stalls; which are flanked by a wad-hook, spare like a dot; at twelve hundred yards infantry can be dissponge, hammers, hand-spikes, wrenches, and pincers. tinguished from cavalry; at nine hundred the movements Upon looking at the ammunition-wagon we see a little columns can be made out. Infantry marching send out magazine with duplicate supplies of very sort of munition | strong light, and, if the reflection be brilliant it is probable | nearly six feet into a mass of earth, sand, and clay. An -seventy or eighty solid shot, abundance of cartridges, that they are marching toward you. The dust raised by eight-inch shell penetrates twenty-three feet into compact port-fires, tubes, shrapnel shells, fuses, and other scientific | cavalry and artillery forms a thick cloud; but this is fain-

have utterly extinguished the dandy lord who tried the Saxe's profound dictum, that the whole secret of war is in patience of Hotspur, when "dry with rage and extreme |"the legs." Marches preface the victories which battles toll," after a hard fight. All are carefully stowed away, decide, and pursuit completes. The order of march of an according to the homely Teresa Tidy maxim, which is the army is this: infantry, artillery, baggage, cavalry; and a soul of military arrangements a place for everything, and column of thirty thousand men thus disposed, would occueverything in its place. To these are added store-cart py three miles, and would require two hours at least to and store lumber-wagon, carrying supplies of rough iron, range in two lines of battle. A day's march with the wood and leather for repairs; also, tools and miscellaneous | lightly-armed Romans was eighteen and a half miles; but, allowed, in consideration of the artillery, baggage, and There is, beside, a spare gun-carriage, with stores, be- other impediments. But we must not overlook what can

truction against troops at eight hundred to a thousand | For instance, Gen. Crawford astonished even the Duke yards range, and against buildings at six hundred yards. of Wellington, when he joined him after the battle of They are especially useful to frighten horses; but they Talavera, with his light brigade, having marched sixtyrequire careful management; without which they are as | two miles in twenty-six hours. Lord Lake's cavalry gallop destructive to friend as to foe. In this train the heaviest | of seventy-three miles, to the scene of Holkar's defeat at load is a twenty-four pounder, on carriage complete, for | Furruckabad, was performed in the same number of hours. In forced marches, the greatest obstacle to the infantry is The wonderfully rapid evolutions of this expert corps blistered feet, to prevent which, feet should be greased enemy at a respectful distance. ought to be witnessed on a review-day at their head- | well beforehand. Tallow dropped from the candle into quarters, Woolwich. On one occasion, we are told, a common spirits, and rubbed well into the feet, is a cure of troop advanced five hundred yards (more than a quarter | blisters already raised. The ordinary quick step is equal of a mile), fired two rounds, retired five hundred yards, to three miles an hour; but this rate cannot be kept up and fired one round, in three minutes and four seconds. after the first hour or two. Double-quick is at the rate of To appreciate this feat it is necessary to remember that, seven miles an hour. On parade, a military pace is thirty besides getting over the ground, at each halt the guns inches, two thousand one hundred and twelve of which

Where troops sleep without cover-as we know will hit the ground ten, fifteen, twenty times, and more. The | con misariat, and their tents by the ordnance; each demost elevated positions are not the best for artillery, for partment utterly independent of the other-they sleep the greatest effects are produced at a height equal to one- with their feet towards the fire (one fire to six men); but in a marshy country they should be made to sleep between When carrying a non-commissioned officer, the weight | two fires, which promotes a free circulation of air-the dred and forty pounds. This is less than for a heavy A useful cookery hint:-Take your ration of meat, wrap it dragoon-horse, which, on ordinary occasions, carries two in a piece of paper or cloth, and cover it with a crust of ration for the man, and twenty pounds ration for the ered over with red-hot embers; and with good economy

From fire we pass to ice, to mention a recipe for imrefreshing cordial. They are very fond of sweets also. proving the passage across a freezing river. When the In the Peninsular war, they throve remarkably well on a lice is thick enough to bear a man, lay six inches of straw daily ration of eight pounds of sugar and seven pounds of down and pour water on it; and when the whole mass enough to bear a train of field artillery.

Great caution is used in passing a pantoon bridge, as should never keep step, or halt upon it, unless it has some good rules for choosing a military horse, followed by and, if he is distressed throw yourself off and hold on by useful chapters on the diseases to which he is subject, and the name, or the tail; for he cannot kick in the water. rules of age. The lat er boginning with, "As a horse | But, as he swims nearly upright, the mane is more con-

Temporary works in the field are hastily raised to afford

outside. The cubical contents of these two are about way, which was the case. "His horse hipped with an old motley saddle, the stir- equal; so that what is thrown out of the trench just and like to mose in the clime; troubled with the lampass, great art of the engineer is to lay his line at such inclina- his rear being exposed to an overwhelming force of the inrected with the fashions, full of windgalls, sped with tions, that the stuff taken from the cuttings shall suffice enemy's cavalry, but, seeing a few cottages on its banks, stark spoiled with the staggers, begnawn with the bots; hour is the allowance for each soldier, who, under these for the river, discovered a ford, and won the battle of Ascircumstances, works without additional pay; the use of saye; and all from guessing that men did not build villa-Inferior horses are useful in the baggage-train; for the spade, pickax and barrow being as essential for the ges on opposite side of a stream without some means of

when filled, forty pounds. Along with tarred sandbags, From an interesting chapter on strategical science, we | these are used in immense quantities, to build up the ex-Some curious facts and calculations relative to the dis- and this is the character they bear at Sebastopol. Such East Indies. What is called a division of an army is a the part of foreman over their men, under the direction of a General, and made up of two or three Brigades of of the engineers.

energy, patience and attention from the artillery officer. cavalry. First, he has to consider the quantity of ordnance-six guns being used to every four howitzers or mortars, besides allowing for spare guns: then, the ammunition; and next, the means of transport. With regard to the am- six hundred fighting men actually in the field. munition, it is stated that at the siege of Cuidad Rodrigo, in six days, eighteen hundred and twenty-five barrels of rear of the other, with the cavalry behind, and a reserve powder were expended; at Badajoz, in eight days, two of guns and one or two regiments behind these, to be kept thousand two hundred and seventy-one barrels; and at fresh in case of need. Some idea of the extent of a line the two sieges of Saint Sebastain, five thousand and may be gathered from these numbers: a regiment of eight twenty-one barrels. As to shot, the average per gun may hundred stretches two hundred and firty yards; a division be (this is speaking roughly) about five hundred; and of three brigades, seven hundred and thirty-five yards, shells, one hundred and twenty; but the general conclu- allowing for space between; and a regiment of cavalry sion from former sieges is that a breach, one hundred feet four hundred yards. The guns are posted in front, or at wide, can be made by the expenditure of ten thousand six hundred 24-pounder shot, at five hundred yards distance, wing at your right hand as you face the enemy, the left with a commanding position, much less will suffice.

Upon inquiring into the execution done, we find, from elaborate experiments tried in 1834 at the great artillery school at Metz, a 36-pounder, with only one-third charge, become clear; at seven hundred and fifty yards heads of at one thousand yards, penetrated twelve inches into good rubble masonry, thirty-one inches into sound oak, and cavalry follow up the blow and dart off in pursuit. Artilearth. One thirteen-inch iron mortar, at an angle of forty-five degrees, with a charge of twenty-five pounds, Under the head of marches, we are reminded of Marshal ranged 4,850 yards. Weak powder is sensibly improved by heating it, with proper care. Exposure to the sun is

Double-shotting, which is chiefly practiced in the navy may by safely tried at short distances with heavy guns. It would seem easy to sink ship by hitting her below, in the funnels are of slight consequence.

particular emergencies.

peak covers some other point which is accessible. You to a fourth of their number. The simple fact is "horrible hay, with no corn. When their drinking-water is hard, has frozen together, lay down planks, and it will be strong can t en measure the ground between yourself and that and heart-rending," even without the hideous details that accessible point, by pacing. The distance will of course have startled the eye, and compelled the reluctant pen. without a compass. Yet mother wit is all in all.

formidable list of equine infirmities will remind the reader the enemy more effectually. The main features are a map, with the legs pointing towards St. Petersburg, and even to the festive boards, the sweet firesides, and the

of the practical knowledge Shakspere displays in his des- parapet breast high, for a screen, and a ditch or trench instantly concluded that the King's thoughts turned that

Major Gen. Arthur Wellesly, coming to a river which spavins, raied with the yellows, past cure of the fives, to form the embankments. One to two cubic yards per he took what seemed the desperate resolution of making

No soldier should be without useful hints in the case of ox is welcome for a more substantial reason, as he yields, ever, justly made for the performance of certain duties at wounded or sick men, when the doctor is not at hand .when the time comes to cut him up, three hundred and sieges-say, the siege of Sebastopol-and in special cases. Fever, ague, and dysen ery, are the diseases soldiers are seventy-five to five hundred rations of beef of one pound Where the soil is unfavorable, or time, forbids its use, most liable to. For ague there are several common vegeand a quarter to each man; while a sheep furnishes only artificial parapets are raised with gabiens, fascines, and tables, in the absence of quinine, the king of all: such as forty to fifty rations. Although the camel, in a sandy sandbags. To obstruct the enemy, sharp palisades are willow bark, orange-leaf water, the root of the sweetsoil, goes only two miles an hour, he will keep it up for stuck in the ground here and there; and abatis, or small scented flag, oak bark, gentian-to which add catechuand bitters in general for dysentery or diarrhea, and holly bark The fascine is a large faggot, the full size of which is for ague. The last remedy on the list is a truly military one-namely, a charge of powder, swallowed in water, is

Properly, a regiment is said to consist of a thousand men; but, at present, the actual strength of an Infantry Regiment is a battalion of thirteen bundred and thirtyseven men of all ranks. One-third of this number, or four companses (each company being composed of a capfain, two subalterns, five sergeants, five corporals, ninetyfive privates), for the depot or reserve at home: while five men, are the service companies on duty aboard. A guards, we are told, were found to be the best workmen; dragoons, and as many as seven hundred and three in the The list of the articles carried with the guns and wagons tance and proximity of an enemy, so important to be is the zeal of their officers, that they do not disdain to act force of from five to ten thousand men in the command three or four Regiments, each, of Infantry, two or three The management of battering trains requires great gun-batteries of six pieces each; and a proportion of

> In reckoning their number, it is customary to deduct ten per cent sick or disabled; so that five regiments of say eight hundred each would represent three thousand

> A division in line of battle is posted in two lines, one in the flanks, at each end of the line; the right flank and flank at your left hand. Generally, the artillery have the honor to begin the encounter, sui ported by the fire of the Infantry. When the former have done sufficient execution, the latter advance with the bayone to complete the business; and when the enemy is disorganized, or in flight, lery are usually employed opposite artillery, cavalry against cavalry, and so on, according to circumstances .-It is only devils dressed in red and white who go up -as the gallant light division of infantry at the Alma did -and, contrary to all the rules of strategy, take a battery of artillery in the face of an astonished foe.

The Woeful Condition of the Army.

[From the London Times, Feb. 15.] Under the head of "Naval and Military Intelligence," water, but the fact is, the resistance of the water is so in our yesterday's paper, among a great variety of partigreat, that a shot can hardly penetrate it; and the only culars connected with the war, some of our readers might way to damage the skip, would be to catch her as she have lit on the following passage: "The 63d regiment, or heels over. Steamers with their machinery below the rather the remains of it, marched on the 21st to Balakwater-line are as safe as sailing vessels; even many holes lava, there to embark either for Scutari or Malta. It left the Fourth Division thirty strong, every officer, regi-The smooth-bored percussion musket will fire sixty mental staff, and all hands included (scarcely a sufficient rounds in thirty minutes, and carry two hundred yards. escort for the colors), after landing in the Crimea about The carbines used by the artillery and cavalry carry one 970 strong, and having since received a draught of thirty hundred and fifty yards. These, however, are nothing men. There was one sergeont only to represent the Grento the new rifle muskets and carbinis, with Minie balls, adier Company remaining out of 120. The returns show which are good at eight hundred to one thousand yards. 400 men in hospital at Scutari. This paragraph would Artillery do not need carbines carrying beyond three hun- probably attract very little notice, being much of a piece dred yards, as their heavy ordnance effectually keeps the with almost daily statements through all kinds of sources. We are now almost too familiar with the idea of a regi-A few hints for the transportation of troops by rail | ment disembodied by death and disease in little more than are drawn from the instructions issued by the Minister of half a year. The public has already got over the once War in France. One is to the effect that horses should terrible fact implied in these details. The shadowy host be embarked in the train before feeding, and fed on the of 28,000 men, in whom Mr. Gladsone still confidently journey, which keeps them quieter. But, with regard to believes, is now a superstition as obselete as the armies the railway, it is found that when infantry travel the ex- | which the poet or the soothsayer once saw in the Northpense is double that of a march; that of cavalry, six times; ern Lights or in the ruffle of the breeze upon the lake. and that of artillery, fifteen times; for which reasons, as It is contradicted by every letter from the Crimea. We well as on account of the importance of keeping up the may state, on undoubted authority, that in a private letter habits of long marches, the railway is restored to only on accounting for the condition of our men, a general high in command says, "With lines more extensive than the Skill in measuring distances is an important branch in French, they have 70,000 men, and we only 14,000." We military education. The use of instruments, and certain have seen the number variously stated within the last mathamatical rules, must, of course, be learnt; but with- fortnight at 10,000, 11,000, 12,000, and even at 13,000, but out them, distance can be accurately reckoned by sound. never at 14,000, the figure which drew upon us a circum-The fash of agun is seen before the report is heard; stantial contradiction from the Chancellor of the Exchemultiply every second of that interval by three hundred quer and his organ in the press. Nay, an officer, writing and eighty yards, every beat of the pulse in health by from the camp, says: "Depend upon it, we have not five three hundred and four yards, and you get the exact dis- thousand men fit to be out of a hospital." There may or tance of yourself from the gun. There is 'the peak of a may not be exaggeration or a particular mode of counting hundred and sixty-three pounds, exclusive of six pounds clay; then you may bake it in any sort of hole well cov- cap' me: hod; which is said to be good for distances un- in these statements; but if the undersigned coincidence of der a hundred yards, on level ground. Suppose you want, hundreds-aye, thousands of witnesses is worth a straw, to measure the distance of an inaccessible point, say on then the 54,000 men transported from these shores or our the opposite side of the river, draw your cap over your garrisons in the Mediterranean since the beginning of last eyes, till the peak just meets the point; then turn smooth- year-transported most luxuriously, as we were assured, ly on your heels, keep your head stiff, and notice when the most rapidly, and certainly most expensively-have shrunk

be the same as that to the accessible point. But the best, But there is another fact which, without any caviling, one hour and a half, or sixteen miles in ten hours, allow- well as a suspension brige; and, to counteract the dan- or rather the most useful of all calculators, is the eye in self-consistency, we are bound to notice. As the blood gerous rocking of which there is a tendency, the troops itself; which, after repeated trials, will register distances of us peaceful men curdled over the carnage of Alma, of with great accuracy. The value of musketry and artillery Balaklava, and of Inkermann, it slowed again at the tel-Captain Lefoy gives, in his Hand-Book for Field Service, begun to rock. In swimming a horse, give him his head; in action depends on an officer's judgment in this respect. ling fact that the proportion of officers killed and wounded His sketch of the fields for the use of the general is exe- was twice, we believe even thrice that of the rank and cuted with the eye, the pocket compass, and by pacing. file. It was evident those gallant fellows had borne their An officer on service had better be without his watch than heads high in the tide of war. They had led their men, and made themselves the mark of the murderous riffe-When Marlborough was sent on a mission to Charles All unwonted as was the din and tumult of war, it had other in the battle-field or in the knacker's yard. The protection to the camp, and to enable the troops to anney the Twelfth, he noticed a pair of compasses lying on the for them no horrors, and they preferred a glorious death