The Mystery of No. 13.

ing hands, and set him on his knee, had forgiven her. He saw that Daffy's heart was aching, Such was his attitude when Mr. and felt like lead in his little bosom, and it is a mistake to think that a child's heart cannot break, it can, and does sometimes. Janin sat perfectly still, something

picking and working at his own heart, as if that were breaking too.

the brown eyes mer.

It's very miserbul, Janny," said Daffy, sorrowfully, "Daddy's goneded and mother says p'r'haps he'll go away further—she don't quite know how far plays now; and Mrs. Chick she said to keeping him fcom Elizabeth? 'Mrs. Chick's a fool," said Janin

"Mother must be welly bad," said Daffy, shaking his head; "she ackshally forgot to feed the Pink, un-only fink of that! You see, I was so very busy, I forgoted him too. Dear little

But there was not the usual lively pride and joy in his voice, when speaking of his pet.

before," said Daffy, looking up carnestly at Janin, "not never. I calleded to her through the keyhole, and said I was welly lonely, and mother alway, hears me does you hink mo her's dead. Janin?"

'Master Daffy," cried Janin, start-

with a gleam of hope on his sad little breadth since it first sank down take care of her up there! You see had come to see a play - that yonder might lose her way, if she hadn't got Janin shivered as he looked down on

the drooped golden head, and seemed to see the mold being heaped above immediately the court was thronged.

set teeth, and Daffy looked up alarm-

'om vest yet! Let's 'ave a little walk there, she would have been proud of about?" adding in the same breath, burs of inspiration.
"But you have no hat," said Janin.

who felt indeed that horses would not the question was asked: drag him to the door of that house where Elizabeth lay waiting for the dict?" ressinge of Jack's life or death. "Guilty-but strongly recommended" Tie a handkercher on," said Daffy, to mercy." message of Jack's life or death. jumping down; "never wore no 'at in

the country & Janin got up slowly, and went to a from its pocket a very large white attitude expressed more anger than silk handkerchief, far too fine in tex- regret. ture to belong to a shoemaker's assist-

out by Daify, who trod on air.

harm to the child who clearly rejoiced carrying in his arms a rosy, pinafored her master's little child with her, I'-

sweet air, the sense of liberty, and a could have touched them. vague suspicion that he was very. No one had let or hindered the pair naugh y affec el Dafry to exhiaration; since Janin had said a few brief words

When that soft little figure stole of joy, and rapturously kissed him der his coat, and nestled close to "My lord," said Janin, directly adunder his coat, and nestled dose to "My lord," said Janin, directly ad-him, mechanically he put his arm dressing the judge, "it is I who round it; then a strong shudder ran should be standing there-not him. through him from head to foot, and I killed Mr. Ross. I knew that Mrs. he shook like a reed in the grasp of St. George possessed valuable sap-

terrified Daffy.

arms, and walked swiftly across the jewels, she said, and her master hated grass in the direction of the gate open-them, and there would be no great ing on Park Lane. People stood aside search made after them. If she stole as he came on, stood aside as from an them, she would for certain betray avenging fate, or a pitiless power that herself, so I must do it, make my is bound to fulfill uself for the good or escape dispose of the stones abroad, evil; and some thought that he looked and she would join me later. I was like Lucifer bearing away an angel in a city office as correspondent, I on his breast; others that a light-not hated the work and I was willing to of hell, but Heaven—shone in the do as she proposed. Formerly when steady eyes that seemed to look on young. I was apprenticed to a shoesomething afar off, to which his wing- maker, and when she discovered that feet were bearing him. But when he any one could easily get into Mr. St. reached the road he stood still, and George's house from the cobbler's she called to the first cabman that he saw. suggested that I should go there as structions, given, but he stole out to be in want of one, I applied for the from under Janin's coat, and laughed situation, and got it Mrs. St. George

CHAPTER XV.

"When the sun and moon dance on

And that will never be." The jury were long absent, and those who waited in court had become weary, and ceased to talk.

Weariest of all was the prisoner. who had not left the dock, in which during the past few hours he had surely passed through the utmost extremes of despair and joy possible to a human

Calm, morally and physically capable of bearing the lot, he had deliber- danger I had to avoid was Mr. Ross' ately chosen, he had entered the dock return, but he was going to a ball, that morning, anxious only that the formality of his trial should be over as very late. I was then to go straight quickly as possible, and the closing scene of all fixed for an early date. Long ago he had acquitted Elizabeth in his mind of any taint of wrong-with one exception. We had doing with his friend; in the silence planned murder, yet it was done and meditation of his days and nights she had gradually resumed the likeness in which he knew her, and for that one mad moment born of fierce

Janin lifted the child with trembl- from Barry's hand, and slain him, he

Lamaire's cross-examination of Rose

revealed a probability that had never occurred to him, insunely preoccupied as he had been with Elizabeth's guilt. 'Then, indeed, honey-sweet life had smiled to and beckoned him and drenched with joy, and the knowledge

"Don't cry," he said, huskily, and of Elizabeth's innocence, it had seemed then Daffy looked up, and the bive and to him an easy thing to walk out of to beg her forgiveness, and in her arms to forget this awful inter use way, O' this ever and ever so long, that had marred the whole and perfect fabric of their loves

He had distened impatiently as the trial proceeded, for were they not Rose she 'spected," Daffy's lips quivered convulsively, "they'd take mother less coldness, the conviction had come away in the black box soon!" too firmly about his throat for the fingers of love to loose it, and that innocent, save of his deadly wrong to her, he must die leaving her with a stigma attached to her reputation that his had been the hand to affix, and which his death would but make the

> As that death stole nearer, and life receded, all Jack's lusty strength and manhood, now the cause for seif-sacrifice, was swept away; cried out in him against annihilation, against the parting from Elizabeth, from Daffy, from the many good and pleasant years they three might have spent hand in

hand together. The sun shone brightly in on court, the notes dancing flippantly on the dusty seats and the people, ing up suddenly, and setting the the dusty seats and the people, who child down. "Then me will die too," said Daffy, eyes turned to that bowed nead in the Then me will die too," said Daffy, dock, which had not moved a hair-

> Vaguely they felt-these people who. was no puppet; but a creature of human flesh and blood, with ears strained for the sound of foctsteps that herald a message of life or death.

They came at last, those steps, and "Curse her!" he said between his the prisoner stood up, the crest of his dark hair rising above the pale manly "Is you angedy?" he said, slipping strained and breathless crowd-knowhis hand into Jaanin's; "don't take me ing the worst, and had Elizabeth been her, husband then.

The jury having answered to names, in the midst of a dead silence, "Have you agreed upon your

The judge sighed. Mr. Lemaire sat with his powerful head bent down, and coat that was hanging up, drawing neither looked up for moved, but his

Looking past all the faces, Jack saw only Elizabeth's as she stood at home stop me as she came out of the dining. Of the enemy. The bullets then pendently Similar targets were employed the ends into the bosom her fall to hear Daffy's eals and then room, so she thought I'd got the spread out fanwise, doing fearful executed from 800 koff are to 1800 wards. The artillery used and tucked the ends into the bosom her fall, to hear Daffy's sobs, and then, stones and didn't know anything about cution. Case is only used at close to 1,800 yards. The artiflery used shrapped. Starting at 800 yards and suffered himself to be led shouting out "Daddy!" at the top of

people noticed the oddly-matched pair, cap, paused and leaned forward to guilty, and when Rose always pesterstare as through the crowded court ing me and blaming me for for not But the man evidently meant no a man in hodden pushed his way, having taken the sapphires, brought harm to the child who clearly rejoiced carrying in his company, chattering nineteen child, who clutched him round the he stopped and something seemed to the dozen; so they reached the park neck with one arm, and pointed at his half choke him—"got to love him, God in safety, and presently sat down not father with the other, laughing for bless him, and so l'ye come here to heaviest. Among the former are filled with shrapped balls, will, at a min has four-pounders"—that is to say, guns range of 4,800 yards, place 50 per cent or continuous contractions.

he laughed, he rolled on the dry grass, to an other, words that out-ran him and he talked in his own delightful and passed from lip to lip, till they way to his heart's content.

Thus an hour passed; then his frowning and perplexed, the black cap with both hands, kissing him with all in close to Janin, who had been sitting Janin looked up at Jack, then withwith eyes that looked straight before out a word lifted up Daffy, who jumphim, and face cold and still as marble, red into his father's arms with a shout

a moral and physical convulsion that phires, and in an evil moment, when Rose and I were lamen ing that we "Janny!" he cried, "Janny! Is you could not marry and go home and setgoing to be sick 100-like poor moth- the in our own country, she suggested to me that we should steal them Her Janin sprang up, the child in his mistress did not really care for the Daffy did not understand the in- apprentice, and as Trubshoes happened for joy as they drove rapidly away, always kept the stones near her, Rose said and in the most unlikely places, and my only chance of stealing hem without being caught, was when she "And when will ye come hame again, slept down stairs, as she sometimes did, and usually at the suggestion of Rose. On that particular day, she sent me a note saying she meant Mrs. St. George to sleep down stairs that night, that I was to be on the leads by eleven, watch the house, and when all was quiet, climb through the second drawing-room window, which was easily reached from below, take the sapphires out of her dressing-gown porket which would be hanging beside her on a chair, and then go down the front stairs, where Rose would be waiting to let me out. The only

> that night-and would probably be home, regaining my room in the same way as I had left it. "All fell out as she had planne with one exception. We had not I just went back to my lodging had tea and put my boots outside the door as if retiring to bed early.

"My room was on the ground floor

by the window unobserved and ned into Trubshoe's place. I let my self noiselessly on to the leads of Mr St. George's dining-room, and watched the house. It was a dark night, to me through the staircase window to tell me that all was safe and as soon as I saw Mr. St. George's light pass up the staircase, I dou'ld go in. Soon after eleven the cook and

housemaid went up stairs. "At twelve o'clock I saw, being close now to the staircase window, Mr. St. George turn out the gas over the drawing-room door, and go up

"I concluded Rose lo be down stairs, waiting for me, and keeping guard. "After a little while I decided to

get into the house. I than I expected, and it must have been while I was struggling with those difficulties that Mr. Ross came in, and passed In getting through the window

last, I struck against a small table or something that fell over with a loud crash. The very next moment I heard some one running quickly down stairs, and opening the outer door; so not knowing where to hide, I turned to the recess, where Mrs. St. George lay asleep, and tried to pull the folds of her dressing-gown round me as I crouched behind chair. There was very little light in the room, but enough to show me the folding doors flying open and a man coming in in his shirt sleeves who made straight for me though I could see him far better than he could see

"'There's somebody here,' he said, groping about with his arms, as if he didn't know the place very well, and then he came close to the foot of the bed: which was a very low one, and stopped short staring down at the lady as if he were struck silly, or as if wondering how she came to be

in his hand + a mere toy thing-but not knowing how he might use it-and sure that he would see me when he took his eyes off the lady, I sprang up meaning to snatch it out of his hand and all taken by surprise as he was, he pointed it at me, and I struck up his hand, and it went off on the nstant, and he fell over with his head on the foot of the bed-dead." Janin paused and wiped the sweat from his brow.
"Janny's tellin' a story," said Daffy,

"O! look at that funny 'ole man in at the judge.
"I picked up the pistol and tossed

t away-it fell between the bedclothes and the wall, and the poor young lady slept soundly on looking as innocent and sweet as an angel, but it didn't seem to me strange-then.

wanted to get away from that — and five and thirty seconds after it has battery of six field guns of ninety-blood and down stairs and out of the house so left the gun. It should explode, by millimeter caliber. The infantry fired phagocy. fast that Rose wasn't quick enough to

on at the old life: I knew if I ran like a small oil-drum or a large pre-The mews were desorted; it was only He clutched the rails before him, believed I coulde hold out till when they got into the street that led and Mr. Lemaire started up, and the all danger was over. But I didn't away I should be suspected, and I served-meat can, filled with a number reckon on Mr St. George being found charge. day to set his father free. "You'll kiss me, Master Daffy?" he

hear him.

his heart, his golden curls falling over, and half hiding both their faces. Going to take Daddy home to mother now-come and see you t'morrer!" he said, "and we'il 'ave another little game together!" But Janin knew better.

To be Continued.

POINTED BARAGRAPHS

Dumb waiters carry everything but Black eyes are beautiful only when hand, it is infinitely more cumbersome given by nature.

A quiet woman usually speaks in a commanding tone of voice;

The individual who repeats a slander langer," stamps it with his approval.

It is sometimes easier to borrow money than it is to pay it back. Making other fo ks miserable is the

It is useless to try to get a small among the defenders. Trained troops

When one girl accuses another of thinkings herself smart it's is a sure

sign she is angry.

A LITTLE HERO-WORSHIPPER.

by hands are not the statues, tablets proves sometimes very annoying, esand inscriptions erected over the dead, pecially at night-time, and when, as but the simpler offerings of spontan- it is made of barbed wire, it is the

n London lies buried Lord Nelson, chief among the naval heroes of England. Leaning against the marble tomb is a small square of perforated card- bags. board, worked as a sampler, which for six years has remained there undis-

It bears these words, spelled in struct both shelter trenches and rifle worsted letters: "In loving memory of dear Lord Horatio Nelson, 'Thy will der a man, lying down, invisible to the

TERMS USED IN WAR ITHE at any range. A typical shelter trench

THE PROJECTILES AND EXPLOSIVES NOW BEING USED.

How Guns Are Classified and Defensive Works Are Known-Some Interesting Facts About Matters That Are Mentioned Daily in the South African De-

Sputc.es. cal military terms brought into promnent and constant use by the war, the exact meanings of which are probably by no means clear to the average civilian. There is lyddite, for instance.

This terrible substance is practically identical with the French melinite and the German soburite, the base of all three being picrite, which is, in its turn, a preparation of picric village of Lydd, in Kent, where was is to learn, as far as possible the conducted the series of elaborate experiments which resulted in its adoption as the "high" explosive of the charging shrapnel but is tightly strength—marches out in buttle arpacked into thin cylindrical bombs of direction, with incredible velocity. The bursting of a large lyddite shell 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. They are common shell, shrapnel, case, palliser, segment and star shell. Only he three first-named, however, are is Furnishing Some Excellent Lessons in likely to be used extensively in the present war. Common shell is a holto the caliber of the gun. The fuse infantry and artillery respectivelys ed that is a "time" one, and canaba "set" to In arriving at comparative date the one arm thrown across a bench, half had clean forgotten them: I only explode the shell at any time between French employed 100 infantry and a back to my lodging. I kept tal canister, in appearance not unquarters. It is merely a hollow mehold out till of bullets. The shell is burst and the

bullets scattered by the gun's dis-VARIETIES OF GUNS.

said, in a lower voice, looking up at weight. Among the latter are found suring 50 yards by 4.2 yards. The field the Past the boy; "p'r'aps it'll be for the last gigantic 110-ton pieces of ordinance, shrapnel-projectiles carry about to find capable of throwing a s(eet) shot; weighing three quarters of a ton, to à distance of nearly 12 miles. Guns the pale man he clasped Janin's neck are officially classified according to (a) the weight of the projectile; (b) the particular type of gun, by the way, is about the best all-round weapon, for it is a quick firer, a breech loader, sister, the 6-inch quick-firing gun, is capable, of course, of throwing a heavier projectile, but, on the other

and cannot be fired so rapidly. SAFEGUARDING A POSITION. A permanent position, once taken up, Some people believe what they is safeguarded by the defenders in hear and doubt what they see. various ways. The Boers "go into which means, in plain English, that they surround themselves many, that artillery must be pushed with a sort of zeriba, or wall of wag-This is an excellent defense where the attacking force is unprovided with artillery, but shell fire quickone enjoyment of the chionic dyspep- ly plays havor with it, besides sending deadly splinters of iron and wood boy to work while a brass band is rely principally upon earthworks, supplemented by a more or less elabrate system of wire-entanglement. The latter is constructed of telegraph wire, crossed and recrossed, and fastened firmly to pointed stakes driven into the ground at a height of about 18 inches. To the advance of cavalry phasis to the necessity for such proa properly-constructed wire entangle-The most touching memorials made barrier, while even to infantry it ment offers a well-nigh insuperable most troublesome clog to the enemy's In the crypt of St. Paul's cathedral progress that could be devised. Earthworks are usually strengthened by gabious-cylindrical baskets having

neither top nor bottom-and sand RIFLE PITS.

Nearly always, too, the defenders of be done," and was brought thither distant enemy, and a very slight by a child whose heart was in this earthen parapet is sufficient to pro-The rules forbid the encumbrance and rifle fire. Indeed, it has been asof the stones by miscellaneous, offer-certained from actual experience that ings, but the verger stood by and the penetration of rifle bullets watched the offence committed, and newly-excavated earth does not exthe authorities have never ordered this ceed 24 inches at 500 yards, and three faithfulness to him, her husband, in overlooking a back yard that opened the authorities have never ordered this ceed 24 inches at 500 yards, and three on some mews and I easily, got out true "In Memoriam," to be removed. feet of earth may be considered, safe

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 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 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, energy or some other distinguishing ing according trait. The report is in due course published officially, and a synopsis of it 'Army List" opposite his name.

carried out by a priy of ten or a dozen unmounted men, or by as few acid. It derives its name from the as two or three cavalrymen. its object A reconnoissance in force is a far more serious and elaborate affair. A battalion, a brigade or a division - ac-British army. Lyddite is not used for cording to the enemy's presumed ing battle. It often happens, howforged steel. These burst into hun- ever, that such a reconnoissance dedreds of fragments, which fly in every velops, against the wish of the General commanding, into a very serious engagement.

means almost certain death to every of vedettes, mounted sentries, which living, thing within 50 yards' radius, fulfills the double purpose of obtainwhile absolute safety cannot be count- ing early and accurate information regarding the approach of an enemy, while preventing him from surprising yards. The fumes given off are the force it covers. A cavalry screen usually consists of one or, at most, two regiments, but where very large armies are in movement the screens are, of course, proportionately denser and more extended.

MODERN ARTILLERY.

the South African War.

Military men who are closely watchlow, elongated, conical projectile, hav- ing events in South Africa declare that ing at its head a percussion fuse, never in its history was artillery more ally, the which ignites on impact. The inter- efficiently served than in the present. old and for is filled with cordite. It is used campaign. Reports of experiments against fortified or intrenched camps had with modern French field guns, and towns, and against masses of in comparison with infantry fire, show troops in the open. Shrappel, on the that four French batteries possess, at other hand, is used almost exclusively ranges of 1,000 to 1,200 yards, the managainst troops advancing in extended killing effect of a full division of ina capl" and he pointed his forefinger order. The fuse, as well as the burst- fantry. This estimate holds good, ing charge, is situated at the base of the French found, whether based on the shell, the whole interior of the the number of rifles which a division forward part being filled with from can at any moment put in line, or the Pici. M. 200 to 600 half-inch bullets, according amount of ammunition carried by the the pher.

rights, about 20 or 30 yards in front in volleys, by half sections and indeup to extreme ranges powers of the artillery were found superior to that of infintry, rising from double at 800 yards to sevenfold at 1,800 yards.

The French field guns, it must be in ected known, are very efficient in sahpned millimet service, and it is the shrapnel fire of this are four-pounders"—that is to say, guns range of 4,800 yards, place 50 per cent ory conv throwing a shot of four pounds' of the small balls in a rectangle mea- be in con-

200 SMALL BALLS. . One of the greatest artillery authorities of modern times the late (Cal. the serve orities of modern times, the late Colonel C. B. Brackenbury. Director of on the weight of the gun; or (c) the diameter the Artillery College in England, deof the bore. Thus, the pieces of naval clared that what English officers must experime ordnance which were used by the Bri- bear in mind is the fact that the Engtish at Ladysmith were spoken of as lish army has never met in the field 4.7-inch guns, meaning, of course, that an enemy provided with well-served they measured 4.7 inches across the in- rifled artillery, nor has good shrapnel terior of the bore at the muzzle. This fire from rifled guns in large numbers ever yet been seen on the field of experima battle. Omdurman presented one of the first instances of really efficient and can take indifferently shells use of shrappel, and in that engage- longation charged with either lyddite, cordite, ment the Dervishes were moved down is successful. or ordinary black powder. Its larger at ranges of 3,000 yards, Omdurman, however, was fought after Bracken

bury's statement was made, Some of these lessons of Brackenbury seem to have been forgotten by artillery officers in South Africa and what he so clearly foresaw a few years ago as likely to happen in certain conditions has been fully borne out The Boers "go into believed with Prince Kraft, of Ger-fact that well forward with infantry: But his scho-Brackenbury warned artillerymen to worried have a care for the protection of the lens in horses. At the action of the Tugela River Long's artillery was lost owing discoveries

The opinion is fast gaining ground in excell that field artillery must carry light period. shields if it is not to be driven from which position by the fire of a few sharp which shooters. Brackenbury algued for Drect of shields fully 10 years ago. The ad- ledge of curacy of the Boer infantry and shrap- yould nel fire is lending additional em-

IN AFTER YEARS.

Why, what's the matter, Nellie fasked her maiden aunt.

Oh, auntie, replied the bride of a month, it's too provoking for anything. Suits with treats me as if I were a child. I bound Well, don't mind a little thing like paperies Hare also found in that, my dear, said the old lady; when the Egyl in school by home to be von get to be my age you will remem. ber it with pleasure.

JUST CAUGHT A GLIMPSE. Papa-By the way, who is the lady that bowed to us as we left the car-

Dorothy-The one with the black silk skirt, the rose petticoat, plaid silk grain of waist, purple collarette with silver clasp, tan coat, black bat with purple tips, carrying a silver-trimmed

Papa-Yes Dorothy-I,don't know, I just caught

Cher's the Decay of Hours nati Bodyt

is correspondent of the Lon Tue . the gr nay be problem ponden'

Metchnikoff's experments " Prof

TI NOBLE CELLS MED became prey of the other or plabeian c this bringing are by to the orn waere the metamo: phosis Occurre of. Motennikofi h s provod concil Dy, that the noble acts are the organs acrophed by

they may be multiplied fording

STRY He th abits

A so leigh remedy agains An entire sect Decific particula en globules of the hrain and so on de crmit result, the great the

ARITMETIC BEFORE MOSES.

meas of arithmetic. Num rous asamples show that he'l Ten a stres of bailey are to le de vided arring ten persons in same manne it teach subsequent is shall fer ye one-eight of a necession. esn than er exemple gyan is:

seven me sures of barley. How much barley 2:3 been lost? The 12 yrus also contains calculations of the area of a carella attempts at squared the chidi

ETCHNIKOFF'S DISCOVERY ME PASTEUR INSTITUTE.

of Lympus Which, It K &

ing Post descrites one sest discoveries of mode ble bas just been made Hur Dostilute. He says that hn zoff is engaged in seek te dosd of a series of Beb of will ch will rejuven de or degan of the haman tode sand objects to premature and insisted that the teronly say that heat d hepe col nation of the discount Ker to slow that the main is been solved. The corres-

slow t the explanation of sende atrophy as bither o been erronepus was that certain blood belle hers and the vi at functions devour began caken. The organic tolsons thrown energetically in you li were remain in the system in od age at least to be less on tret red. These poisoned the land with at action on those of Thirs tissues.

schillery.

their strugges with the they continue to her la youth, and, he rote nism will cease o'grow will be prolonge ! i ruf as found means of atresistance, and the te-Is lobrained are exceeding

was made in the Damper. M. Bordet, one of pris pupils in 1898, partish of a curious experiment and of injecting the tion 140 a guinea pig. Later he blood of the gines albit and the Jatter ded. wolf sought the causes of and was soon guille flood of the gum . Es. raphit or other seite elaborates the probin the red globutes of the nakes them the proy of the

from the fact the the poted in the gunfer dig la ge doses, Prof. Met huon of all med .; hes, such

SINE AND ARSENIC ! O began to inject nto solutions of previously d-rig's bloode . A conic pontained before the ins. 00 000 red globules. In three he number increased to

discovered and the me ming the red glown sorums for out to ran. If the blood soun the liver, that or the ave demonstrated the kidnov serum was t und and The professor is now he exalt dose-for nedhe discovery has now od of mere later on he cellbrated Dr. Vida on human serum.

uman life, if everything

Same Methods Used As It

ray of vindictive connodern schoolhoy a the hirtysix hundred your progenitors have been just such desperate probhaptic as annoy him welp recent archaeol al Egypt is a papy de endition, dating from a ui 1500 B. C. This ic! ong heading beginning ply to attain the knowdark things," proves te that the Egypt a ft half a thorough know one

prations with units and made by means of admultiplication. Sub race vision were not known in form, but correct to oblained nevertheleeach subsequent gerer one-eight of a me en! the one before him. Anoth There are aven has seven cats, each cat mice, each mouse le grains of barley. Bar

walley would have vield rele attempts at squaring in finally calculations of the outic

rie prements of pyramid

Agricultural

have been subjected to scientific study in order to find or estofith the necessary food dements, in the work the Agricultural Experimen Stations have conducted many in portant experiments of them have been in the poultry line, and a person esceking informa tion on this question must, there fore accept the results of ind vi dual experiments or abide by the

theories promulgated by individual These may be and doubtless fare in most cases as reliable as the St. tion work, but the fact that ret few people outside of the edica fional and experimen al institution ard qualified to make the correct test analyses, etc., renders it hard to ch tain the results of any carefully evi ducted experiments.

Of course the same general ra should be used in the preparation of foods for poultry animals, giving due considerati to the differences in the power digestion and assimilation, as v as in the chemical domposition the product, and likewise of foods. Having narrowed the periment to apply only to pount we shall see other important to chilming attention, such as the etc. ture of different breed, their habit etc., and the theory will be proven what has already become and. tablished fact, that the splight y tive Leghorn requires different

than does the massive, do ile Bra. The general principles of feet have been outlined Cushman as follows; Certain food elements

ed to sustain life and renew various parts. If more on than is required for this it stored up in the body use or used in reproduction. product of poultry is surplus food that has been went in gested and assimilated. The most food the fowl car assimilate in greater the product, if the in materials are given. Food is main up of carbonaceous, nicrogenous and mineral matter, besides t

water it contains. Staren, tat and sugar are carbonaceous foods. Lear meat, white of an egg, the curry of mi.k and, the gatten he graffer ar foods. ... classed among the The mineral matter the whey of muk, in whole grains and usudity in binations with nitrog nous The digested carbonac. bus make after passing incottle boot. an animal, is used to promit and force; it is oxygenized or dually burned and ity and energy. If there's h plus it is stored up as drawn upon when needed, w the supply in the blood

The nitrogenous material gol replace worn out tisbue, not atc., while the mineral rishes the materials for the h and to replace nerve waste. Fat and mineral are in muscle to a certain extent. and the tissues of the body Hola in all of these elements extent, but each predom nates in to parts mentioned. The carbonaceous material i

the onimal much like to the locomotive. The ous matter might be the steel and iron of v comotive is made, and system of the animal to the and controls it. It tak 1 120



kind of medicine is the kind that the system and enabling it to resi only found in Dr. Williams, Pink building up the blood and stren pills reach the root of disease, people bright, active and strong

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