A Mammoth Golden Carpet!

lion pounds is the total of the indemnity Germany is called upon to pay the Allies over a period of forty-two years, says a London magazine.

More than £188 for every man, woman, and ch'il living in Germany; a guinea for every shilling Great Britain

So stupendous a sum that, if all the Mints in the British Empire started to-day to coin gold at their average rate of production in normal times, the last sovereign would not be struck until the year 2,298.

The unaided mind cannot grasp figures so colossal—figures which represent little short of the entire wealth of Germany to-day, if she were put up to auction and sold "lock, stock

Let us in fancy reduce the thousands of millions of pounds of peacepair of scales. On the other pan let ing-room on it.

To carry it away we should have to shoulder. recruit an army of 1,700,000 brawny porters-as many as the combined populations of Liverpool, Manchester and Plymouth. Let us give to each man a burden of a hundredweight. So many are these sovereigns

We shall then find that, if we arthat, before the rear rank had passed our offices, the leaders would be 2437. marching through Durham.

Let us now try the experiment of two tons and drawn by a couple of petual income of £565,000,000.

Bleven thousand three flundred mil- horses. Before the last driver had lest sight of London, his fellow at the other end would be within sight of Sheffield.

Such methods of transporting so enormous a weight are too laborous So we will try the railway. For this purpose we shall require 8,878 trucks, each holding ten tons of gold; and our train, drawn by thirty powerful locomotives, will be so long that the foremost engine will be steaming into Waterloo Station before the last truck has cleared Guildford.

Now let us take our thousands of nillions of sovereigns and set to work to form them into one far-spreading carpet of gold. So enormous will be this carpet that with it we shall be able to cover every square inch of five of London's great open spaces-Hyde, St. James's, Regent's, Battersea, and Victoria Parks. We shall have a remgold to sovereigns, and pour our aval-nant so large that every man, woman anche of coins on to one pan of a giant |and child in Cornwall could find stand-

us place every man, woman, and child if we should fashion our sovereigns living in Northumberland, Cumberinto a roadway, we should have a glit-If we should fashion our sovereigns land, Westmorland, Durham, and Lin- tering path thirty-six feet wide, along colnshire. We shall find that these which twenty men could walk abreas three millions or so of human beings from Ramsgate to Land's End. Or we cannot raise the mountain of gold the could link London with Berlin by a smallest fraction of an inch from the golden railway so wide that eleven men could walk along it shoulder to

By reducing the width of our path to a little under six inches we could fashion a golden belt long enough to

So many are these sovereigns that if a nimble-fingered cashier dowered range them four abreast, with an in- with perpetual youth were to start toterval of a yard between successive day to count them at the rate of 100 ranks, our column would be so long a minute for ten hours a day, he would no reach the last coin until the year

To get one more impressive idea of what Germany's indemnity means, let conveying our mountain of golden us, in fancy, invest it at a safe five sovereigns in wagons, each holding per cent. It would then yield a per-

THE NEW MEDICINE, A FRESH DISCOVERY suction-pump.

NOT MUCH IN A YAWN OR STRETCH.

Medical Science Discovering That These Actions Have Important Bearing on Health.

Many of the secrets of health and disease are hidden in the simplest disguises-for example, a laugh, a yawn, a sigh.

Take a yawn and a stretch, for example—the ordinary man's beginning of his day. Why does one yawn on getting out of bed? Why does one stretch one's limbs and get comfort from doing it? Why does one rub These are the most orene's eyes? dinary acts in the world; and yet their meaning is only just becoming under-

Let us glance at the sleeping man before we try to answer the questions. As he lies in bed his muscles are all relaxed and soft. His chest moves very little; he breathes with his body, and that slowly and regularly.

Now we know that inactive muscles and an inactive brain have a smaller know, too, that when the chest is moving very little the lungs are not moving very little the lungs are not opening very widely. We can infer them you go farther and slow your a pelt.

beats. If you press very strongly on average price at London was \$2,000 a little nervous. Jimmie had drawn part of his money from the bank, and

There are several parts of the body which can hold a great deal of bloodthe muscles, the lungs, the brain, and finally the organs of digestion. The bulk of the blood of the sleeping man is not in his muscles, his brain, or his lungs. It must therefore be in his body tried by uninstructed persons, as it is, functioning of nerve cells in the brain.

Experiment has shown that that is where it is. Therefore when he rubs them comparatively lightly, and One hears a great deal about the awakes he is not fit for immediate bring his reserves of blood to his bring his reserves of blood to his action of the heart drives the blood contains a great many millions of the brain, muscles, and lungs. How is he to the brain and muscles. going to do this?

Pressure and Suction.

There are two ways in which blood

This pressure naturally tends to thought the hold upwards out of the body and lungs. The suctions which seem so utterly common place that nobody has taken any interest in them.

This study is called "The New Medi-

the chest itself. When it is pulled open by the "stretch," air rushes in (yawn), and blood also rushes in to fill it up. We have an effect like a

At the same moment our waking nan often begins to-rub his eyes. He is now fully stretched, with his head thrown back and his body taut. chest is widely expanded, and is filled with air and blood. So far, however, blood is not being sent quickly enough to his brain and muscles. It is necessary to whip up his heart to stronger efforts.

Now the heart can increase its working power in two ways. It can make bigger beats, and it can beat more quickly. In the first case, its output of blood per beat is increased: n the second is output of blood per minute. In order to give bigger beats t must open more widely, and so take in more blood.

This process is controlled by nerves which connect the heart with the brain, and so with the eyes and ears and skin. The reason is obvious the moment one thinks of how an animal or a man wards off an attack.

If a man sees someone coming to to take bigger beats.

ears, and skin, and the heart-in short, ed from \$500 to \$1,000. Last year the mother were busily engaged opening amount of blood in them than active between the senses and the heart. On pelts were not of first grade; several boxes and getting the store shipshape this account if you rub your eyeballs were taken from the bodies of dead This was Mrs. Kennett's first venture you make your heart take bigger otter found on the seashore; but the into the commercial field, and she felt from that that less than the usual heart, and may even stop it, because you are causing your heart to open and fill with blood

If it filled too full it might perhaps not be able to shut-i.e., "beat" again, Doctors have shown this in experiments in which pressure on the eyeballs causes slowing of the pulse. It is not, however, an experiment to be or may be, dangerous.

The waking man who rubs his eves

But even at this point we have not about the whitish mass which it sur-exhausted all the surprises of this rounds? wonderful mechanism. If we watch There are two ways in which blood can be driven out of the body proper into the lungs. The first is by presigned on the body itself, and the second sure of the contest of the c sure on the body itself, and the second strain an his muscles. He heras his which are interlaced and tangled to the cerebellum by the mid-brain; or is by suction. Pressure in this case breath, the big muscles in the front gether with an amazing complexity.

and the worst is yet to come



cine." Its importance is very great because we are learning that the first signs of some diseases are changes in these ordinary everyday actions. Moreover, we are getting fresh knowledge of the proper way to take physical exercise, and of the meaning of such exercise.

All this knowledge will help us in he battle we are carrying on against national unfitness.

A quiet, easy walk the first thing in the morning is the best thing we can possibly indulge in, for it helps the heart to distribute the blood all over our body in preparation for the day's work.

Vulnerable.

A minister spoke very strongly against betting. One of the wealthiest members of the congregation was a great gambler, and someone told the preacher about this.

After the service he went up to the gambler, and said, "I'm afraid I must have offended you to-day, but-"Oh, don't mention it," was the reply. "It's a mighty poor sermon that

doesn't hit me somewhere." Canada (Ontario) and Lower Canada ficient." (Quebec) in 1792.

The sea otter, the animal of most beautiful fur once so plentiful in him. attack him he gets his muscles ready Alaskan waters, is almost extinct, opens his store to-morrow with a sale to fight. But the muscles need a great Traded in by the hundreds of thou- of fruit jars and preserve cans. How deal of extra blood for their work. So sames a century ago, pelts offered in romantic! a message is telegraphed to the heart 1920 were: one in St. Louis, three in "Good!" New York and fifteen in London. The sell the same articles, at ten cents on It thus comes about that there is a fur is so fine, lustrous and durable nervous connection between the eyes, that a good skin has always command-

UP-TO-DATE JIMMIE

Pete Sharpe tilted his hat rakishly ver his left ear, and grinned at Lem Plunkett. Mr. Plunkett was in high good humor.

"Has Jimmie Kennett opened his toy store yet, Lem?" Pete inquired. "No. The idea that a kid should be our bitterest enemy! Jimmie Kennett, in the store business! Bosh!" and Jimmie to be a mighty old nine-year Mr. Plunkett laughed. Sharpe joined in the laughter. The building shook with roars, peals and explosions of laughter.

"The style of the firm is 'Mrs. Kennett & Son.' " Lem explained. "The child had to call on mother for help." "He'll call louder for mother, when we get done with him!" Sharpe pro-

"He's entirely too ambitious, Pete." "We'll take the ambition out of his system. We made this town what it is; we own it. No one has a right to Nova Scotia's first legislature met live but us. And this little mugwump n 1758; Prince Edward Island in has the audacity to start a store right 1773; New Brunswick in 1786; Upper under our noses! Enough is suf

> "Don't lay hands on him, Pete," in terrupted Plunkett, "this must be a struggle of wits. We must out-general Why, he is only a kid! He

"Good!" exclaimed Sharpe, "we will

Meanwhile, Jimmie Kennett and his

Physiology of the Brain

What is the mind?

A physiologist Nobody knows. would tell you that your mental pro- the c'ortex" have been proved to exercesses represent the co-ordinated The explanation, however, is inadequate and unsatisfactory.

so only causes his heart to beat a "gray matter" which forms a sort of exertion or activity. He must first little more strongly. This stronger envelope for the brain, and which above-mentioned nerve cells. But how

breath, the big muscles in the front of the pody grow tighter still, and you can see that they are pressing very Suction means the opening up of the chest, and so the drawing into it of bled from the veins.

The waking man on getting out of bed draws a deep, long breath—what is called a yawn. At the same moment he throws his shoulders back, and so brings his shoulders back, and so the drawing into it of bed draws a deep, long breath what has been the bring his breath, and so air the brain of a human being number something like 200,000,000. Their ramifying rootlets connect them one with anything rootlets connect them one with anything to drive a good supply of blood into drive a

muscle of his back become taut, and, the muscles and brain. When enough the first to the position he has assumed, his cheet is pulled open.

Thus the "stretck" and the deep awake.

It is through the medium of their same sort of gray matter that interlaced fibres that the nerve cells interlaced fibres that the nerve cells of the brain are able to work together harmoniously. To them we owe assorbarmoniously. To them we owe assorbarmoniously. To them we owe assorbarmoniously. To them we owe assorbarmoniously.

the front of his body so that they present the bodily organs.

Whipping Up the Heart.

Whipping Up the Heart.

Whipping Up the Heart.

Whipping Up the Heart.

Whipping Up the Heart. The very complexity of it seems almost to defy analysis. We know that nervous system a highly complex and the fore-brain (made up of two con-This study is called "The New Medi- voluted masses called the cerebral lation.

hemispheres) is the main seat of intelligence. Certain definite areas of cise motor control over certain parts of the muscular system of the body The physiologit will tell you that the centre of visual perception is at the back of the brain, and he can point out in like manner the areas governing hearing, smell, taste

But he is unable to go very much further. Ask, for instance, what is the "cerebellum," behind the ears which is a distinct structure. He will

small masses, mainly composed of the same sort of "gray matter" that is thanks to the position he has assent his cheef is pulled open.

Thus the "stretch" and the deep breath, the "stretch which makes the yawn.

Valuable Knowledge.

In fact, he has moved his reserves of blood from his body into his lungs to be charged with exygen. Then he to be charged with exygen. Then he to be charged with exygen. Then he has been learned to be charged with expension line and the gang main transmission line

The analogy, indeed, may be consid ered very close, inasmuch as nerve energy, according to the theory now accepted, is really electricity, and the wonderfully efficient electrical instal-

By Vernon Russel

friends had wisely disapproved of the venture. Sharpe opened voiced his disap-

proval. "You're burning daylight," he told Mrs. Kennett. Mrs. Kennett repeated this to Jimmie.

"Mr. Sharpe says we are burning daylight, Jimmie."

"Is that so? Well, then, he can watch our smoke!" Mrs. Kennett smiled. She knew boy. When he talked, he said some-

day morning. Sharpe-Plunkett & Co. smiled broad-

"He has his mason fruit jars marked down to \$2.43 a dozen. The tin cans ably to a malformation of the socket, are lebeled \$1.43 a dozen. That is Each year after the breeding season twenty per cent. above wholesale the male vanished, and the female recost," Sharpe explained. "Now we mained alone during the winter must slash his prices to smithereens. months; but in the spring the male Luckily we secured all the preserve came back—the same bird with the jars in the county. Our hour has same unmistakable projecting wing struck; the time has arrived. Bom- feather. It is certain that he had gone bard that kid; drown him! Sell those far away; otherwise he would have rejam at forty-three cents per dozen!"

"But the loss!" screamed Lem.
"Loss, nothing!" thundered Sharpe.

hammer blow.' "All right; what you say goes," Lem replied, "but a little bird tells me-

Jimmie had laid plans, and counternake this move.

store in solid formation. They

Plunkett, "we'll flood the country with preserve jars."-

world is in the neighborhood of ten and a half billion tons.

Sharpe received, replacing about Sharpe received a galvanic shock.

"That kid," snarled Sharpe, "has

"What kid Jimmie," whined Sharpe, 1,765 miles In height. "played both ends against the middle. We are the middle. He must think

How did Plunkett know? "What is troubling you, Pete? What crops, it is always advisable as Jimmle done?" as closely

us! With every dozen jars we sold, we placed two silver dollars in Jimmie's pocket!"

"We? How?" Plunkett good.

buy for forty-three cents and sell for plant up in trees into as a \$2 profit. Jim-lar condition as possible. mie made that."

"Well, Sharpe growled, "our cus-omers were hired by Jimmie. He bought every single one of our preserve jars."

Ary circumstances.—Norman Merceller State Nursery Station, Indian Sask

"Ouch!" screamed Mr. Plunkett.

Peas were cultivated in Europe

An Ocean Liner's Food Supply

Six thousand pounds of meat are of Brussels sprouts are ordinary items eaten in a single day, and every day, in the ship's victualing list. When on a voyage on board the glant White Star liner Olympic in the busy season on the Atlantic ferry. The ship then carries 3,500 persons on each trip across the ocean, including her crew too many for a voyage. Grapefruit comes aboard 100 boxes at a time, and oranges in 200-box lots. Included in the meat item of provisions for the voyage are 8,000 pounds of bacon and 2,500 pounds of of 878, and long experience has shown her chief steward that a proper daily allowance of meat per person is about hams, which are the principal salt meats carried. Lamb and mutton

figure largely in the fresh meat sup-ply, about 200 carcasses being taken from the refrigerators and cut up for cooking in various ways is 6,000 a day. on beard for each voyage. But the great staple in meat is fresh beef. It may be said that the This does not take into account consumption of chickens, which average public, when crossing the ocean, travels on beef. It demands meat 500 a day; nor ducks, geese and turkeys, nor 1,000 game birds consumed on each voyage, nor of fish, the latter three times a day. Whether the voyager is in first cabin or second or averaging 3,000 pounds a day.

a pound and three-quarters. At that rate, the average total of meat taken

In addition to these staples, the ceople on board manage to dispose of 4,000 eggs daily and 480 quarts of milk every twenty-four hours. Butter is consumed at the rate of 200 pounds a day, and 2,700 jars of jam and 1,900 jars of marmalade disappear on the voyage like dew before the morning

Fresh vegetables are an important feature of every bill of fare, and their onsumption also is on a Gargantuan scale. For each round trip twenty-five tons of potatoes are taken aboard. They are consumed at the rate of about two tons a day while the ship is at sea—of these 600 pounds are mashed-and in proportion while she is in port, for her crew are hearty eaters.

Three tons of carrots, three tons of received on board. Fruit keeps for turnirs and 2,500 heads of cabbage, long periods. weighing about five tons, also are lee to supply the refrigorators is taken aboard for every voyage. A made daily, the amount required behundred crates of lettuce, a ton of ing 3,000 pounds every twenty-four Bermuda onions or a similar quantity hours.

Travels of a Bird Husband.

pounds.

thing worth hearing. Jimmie opened his store on Satur-

Pete?" Lem inquired. He knew; he

nly wanted to hear Pete rave. he insisted angrily.

Business was booming. Clerks hust-led to and fro. Sharpe was raking in A cubic foot of air weig

seventy-two hours a day. Gee whizz! What'll we do?"

"Done!" Sharpe roared, "he's done sible. If e do this we may

le's pocket!"
"We? How?" Plunkett gasped.
"Figure it out yourself, Lem. You bring the land which it is

nore than 1,000 years ago. St. John, New Brunswick, is Canada's oldest incorporated city.

third, he must have his meat; and

whether it comes to the table as sir-loin steak, rib roast or flet mignon in the first-class dining room, or plain

roast beef in the second class or beef

stew or baked meat in third, it is the

best quality of beef that money can

buy—the complete opposite of the

"salt horse" served on old-time sea voyages. The roast beef alone for a

single day on the Qlympic totals 1,800

Refrigerators that have capacity for

500 tons of food are freshly filled for each voyage, and they keep every-

thing put into them in perfect condi-tion. Milk and cream are kept sweet

for a week's voyage without the use

of preservatives. Lettuce is as crisp

after travelling 3,000 miles as when

Do birds mate for life? Mr. W. H. Hudson, the naturalist, discussing the question in his book Birds of Town and Village, tells an interesting story of a pair of thrushes that were true to their first love.

A woman who lived in Winchester. England, he says, had among her bird pensioners in the garden of her house a female thrush that grew tame enough to feed at the dining-room table. The thrush paired and bred for several seasons in the same garden, and each brood of young ones, too, were tame and would follow their mother into the house to be fed. But the male was too shy ever to venture

"What does he offer his articles for, in.

The first year that he appeared the had a wing woman noticed that he had a wing feather that stuck cut, owing probturned to the garden, where there was food in abundance during the spells of frosty weather. As he did not appear, it is possible that he mi-We'll deal him a staggering, sledge- grated each year to a warmer climate beyond the sea.

The Air We Breathe.

If the entire population of the world plans. He had expected Sharpe to be considered, the total quantity of air breatned in one year by human Sharpe laid a neat trap-and caught lungs is about two hundred and sixty trillion cubic feet. Atmospheric air Every old man and woman, every is about four-fifths nitrogen and onegirl and boy in the county appeared to fifth oxygen. It is reckoned that the oe anxious to buy preserve cans and nitrogen represented in the abovejars. They entered the Sharpe-Plun-mentioned quantity would fill a cubicame in waves. They came in flocks. the oxygen would fill another tank

A cubic foot of air weighs about one the coin, but he lost money on each and three-tenths cunces. Thus it is reckoned that a single human individ-Jimmle Kennett sold absolutely ual breathes in a twelvemonth six and othing. But this appeared to please one-fifth tous' of air. To keep' him him; he smiled at his mother.

"It's going fine," sharpe confided to will require 430 ton; of air. alive for three score and ten years

Charles Nevers Helmes, who puts these figures together for the Scien-"We're about sold out now," Lem re- tiffc American, says that the regulreminded him, "the growd has gone ment for the entire population of the away loaded to the guards."

of the world, must inhale yearly at He hustled into the cashier's wicket least two and one-fifth billion tons of oxygen. The world's annual tion of this gas alone would fill a to wrecked our whole system. His one mile square at the base miles high. Its total consumits high. Its total consumits high. Its total consumits high. Its total consumits high a sign in a year would fill a sign.

Success in Prairie Trade Planting.

In raising trees," as wel absolutely foolish , to pla "But—I don't see!" said Plunkett. the freshly broken sod of the and expect them to live a ary circumstances. Normal Sask.

"John Gilpin" Composed at Night. Cowper composed and mentized the whole of his hymores master, plece, "John Gilpin," during a sleepless night.