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A DAY WITHEDISON•AT SCHENEC TADY.
Passing swiftly through the suburbs of the sedate old city of Schenectady, on the New Youk Central Ritilway, 'one's attention is arrested by a huge range of factory buildings and by the numerous signs of prossing activity in and around them. The contrast with the surrounding pastomal scenery does but accentuate all the evidences presented of busy toil. Beyond the factory, as its lies solidly athwart the view, with its long facade to the railwily and its remote rear bordered by the Erie Canal, winds and doubles the phacid Mohawk river, hernmed in by green banks and girdled by uprolling mountains woll away to the north ward. It is a pleasent reminiscence of one of his nearest frimend that just at the time of the demonstration of the commercial feasibility and practicability of the incindescont light Mr. Edison remarkel to him one day, as they wero passing tho Singer Sewing Machino works at Wizabethport, N. J., that he hoped beforo long to be able himself to givo employment to as many men as were thero engrged. Within the decude the laudable wish had been gratificd.
Jn Dr. Benson Lossing's admirable History of Almerican Industries oud Antis, issued at the time of the Centenninl Exposition, there is no mention of a dymmo building. The fact is significent as to the youth of the new industry and as to its growth.
Theso shops are well placed for the handling of freight, and their advantages havo been enhaniced by the laying of mails all througl the yards and shops. There is in total of nearly two miles of track, and the finished product can bo loaded into the cirs at fivo different shipping points.
Tho works employ from 750 to 850 hands, necording to the senson of the yont, and int the time of the writer's visit about 75 were on the rolls.
The machine shop is not less than 122 foet wide and 306 feet long, and deservedy claims our attention frist. Its centin! aisle is 40 feet wide, and there is a cathedrol thio
foundry department is made hore, audi a month or two ago, upon the reccipt of an order for 25,000 feet of a specially insuIated cablo, the machinery was at once designed and built on the spot. Resources of this nature give an establishment couringe and daring for the most onerons enterprises.
By matural transition our thoughts now wander from the heary work comnected with thedynmmoconstruction to the finerand more delicate manipulation required in the production of an armature, and we fimb our way to shop No. 1, where the extensive dopartment of armature winding issituated. It is only the lizy man who docs any hard labor here ; the busy man, in a hurry, at once avails himself of the convenionces provided for speedy work. It is an evidence of the progress in this depariment that the repair work brought in is barely 25 percent of what is was when the company was doing but a quarter of its present business. At first it was tho practico to keen a complete grang of armature winders engaged on repair work, but thero is now so little of it that it is done at odid times.

ITr. Edison made up his mindat the outset of his work in electric lighting that the conductors ought to be placed underground, and, -laving reached that conclusion, he proceeded with characteristic doggediess and ingenuity to elaborate the mothods. He adopted iron pipe as the extermal mechanical protection of his conductors, his objoct being to provide something amalogous to the means of distribution employed by gas and water companies, something which could withstand the strain of street trafic, the disintegriting influences of soil and climato, and the sucden onslanght of unfriendly pick or shovel. Inside this pipe ho placed the condnctors, carefully wrapped and insulated by an extremely viscous, almost solid compound.
The next branch of the business to be visited is the wiro-insulating department. It affords a striking contrast with the seene just quitted, for while the conductors there
became so large that they looked like sections of shafting, here they tend to tho other extreme, at last being as fine as haman hair; and all the machinery is niturally in lieeping. This depnrtment was originally established to provide the dynamo and motor shops with insulated wire for the field magnets and armatures, but its usefulness and economy wero so signally proved, that it was develojed and extended, until now the works unke insufated wire of all linds, not only for themselves, but for outside customers of all chasses. The wire covered runs from the largest sizes for heavy currents down to .0015, a conductor so small that it makes 32 miles to the pound ; and the insulation work includes'not only cotton and silk, but rubber. Some of the machinery is a marvel in its comprohensive ability, for it loes everything, apparently, axcept label the completed wire. In one of tho machines the baro stranded wire goes through seven listinct operations, and is delivered ready or use, with the exception, in some instances, of receiving a final cont of compound, which is necessarily applied in another place devoted to the less cleanly processes of that nature. Some of the machines run at high mates of speed. In one the spindle makes seven thousimel revolutions a minuto, and Jeeps it up with the utmost ease and indifforence.
Since the first Elison dynamo was built -thit for tho unfortunate "Jemmette," and now lying with her in the cold depths of arctic ocean-140 central stations and 1,500 isolated phants, with a capacity of $1,200,000$ limps, have been installed in Americe alone to supply the Edison inomdescent light, and the growth is going on at an acceleriting pace. These tigures are in themselves almost a fair justification of the imaginings in which the newspapers luxuriated when the olectric light was in its infancy ; and they certainly support beyond a cavil the remark made by Mr. Edison in an article published nearly four years ago

tur mdison machine wokks, schenectady, mix.

## NORTHERNMESSENGER

tricity," and which excited great criticisin said, "proves beyond a doubt that the said, "proves beyond a doubt that the
electric light fur household purposes can bo electric light for household purposes can bo
produced and sold in competition with gas." produced and sold in competition with gas." They who scoffed have remained to pray,
the gas companies that were so hostilo and the gas companies that were so hostilo and
incredulous boing themselves now among the most active vendors of the new illuminant, or else so anxious as to the future that their yearnings for improyed gas apparatus that can struggle with it are never ndequately fulfilled. During the last ten years, one firm of engine-builders-the Armington \& Sims Company-has sentout nearly as many ongines to drive Edison dynamos as there wore in all the United States fifty yenzs ago.
The electric light is not morely based on scientific principles, but thoroughly accords with all that is scientican ins was called for by the intelligenco of the times, whose confort and convenience it so amply meets; and the men first to pro clain its merits and its desiribility, and to act on their beliefs, have seen their every prediction realiz
It is in connection with the central sta tion business that a remarkiable development affecting the works is croing on Slowly but surely the stations aro getting upon their proper basis of supplying current, not simply for lighting, but for all the
other demands that may .urise for it. A other demands that may arise for it. A
station is no longer a place whero intense station is no longer in place whero intense
activity for five or six hours is succeeded by leisure and dulness tho rest of the twenty-four. The telegraph offlee, requir ing current for its circuits ; the telephone exchinge, with its magnetos to be run the medical establishment, with patients to bo cured by electricity; tho printing offices, the ice cream saloons, the buildings with elevators, the wood-working factories, the chemical works with bid ventilation, the jewellor's workshop, the clothier's stor plices of these and hmareds of ohe use or to drive motors, and they are all becoming customers of the central stations. the last year, besides buitding a lime num ber of special renerators, sent out thous ands of horse-yower of Sprague motors to these stitions, and the tiasks to which the motors are put multiply daily. The Works have furmshed machines for more fabric mills; nearly 70 flour mills and grain elevators ; just upon 100 iron works, car shops and machine shops; over 60 furni ture and other woodworkine establish ments ; ibout 100 miscellaneous factories, etc, ; more than 50 newspapers and publishing offices; some 70 asylums and pub lic institutions; around 50 theatres and places of amusement; nearly 250 banks, clubs, apartment houses, office buildings
and tine residences; and paper milis, oil retineries, pumping stations, specinl work and the like to the number of 300 or 400 more.
From thoso works, machines havo been despatched to regions as remote as FinThe domand Brazil and South Atrici Americamay bo said to bo wholly met from this country, and the machines underso all the trials of a lour sea yoyageas wellas the handling of inexpert natives. A large con tract filled not long since of Schenectady was for a plant for Tokio was for is now being supplied to the Mikado and to a large portion of the city. Even the "hermit kingdom" of Corea has sent the "hermit kingdo
Mr. Edison is the president of the com pany and Mr. Charles Batchelor the vice president. The nctive control is in the lands of Mr . Simuel Insull-long Mr Edison's private secretary-the trensurer
and general manager, seconded by Mr. and general manager, seconera man Mr who has as his aide Mr. W. B. Iurner superintendent of the works. Mr. John Langton, jr., is the mechanical engineer. In electric lighting a gigantic and growing industry has been created. The boldness and the success with which so important an undertaking was called into existence by Mr. Edison do credit very strikingly to his business capacity. In all probability, on ordinary narrow business lines, he would be very much of a failure, just as wo can conceive that Mr. Gladstone, tho
leading financier of England, would not hhine is it book-keeper; but gauged by thought, Mr. Jdison has won his right to the title of $a$ "captain of industry" in its full meaning. He is not only the animating spirit of this establishment, but is actively interested in the Edison Lamp tory turuing out from 5,000 to 10,000 lamps per day, and in Bergmann \& Co. in New York, where 500 men are employed in the manufacture of all the various deegrulation lighting system that relato to and decorative display. All these great in dustries are based on upwards of 500 ja tents owned by the Edison Liectric Light Company, whose president is Mr. Edward II. Johnston, for very miny years past losely connected with both the scientific Edison's in ventions.
As we take a farewell of the establishment, we may fittingly recall and apply the panegyric uttered by Mr. Simuel Smiles in his Self Help: "Inventors havo set in mo world. To them society owes many of its chief necessaries, comforts and laxiries; and by their genius and Iiboor daily life has been rendered in all respects more easy, as well as enjoyable. *. * * Mankind at largo are the happier for such inventions, ind in an increase of individual well-being as in an increase of individual well-being as well as of public enjo
from Electrical World.

## THE TRUE PLACE OF THE LIBRARY.

## by many J. strayer

A strong present tendency is to depreciate the Sundiy-schoul library. This is partly the result of two causes, - the poon clections made from the abundince of rood material, and the slipshod way in which There is, however, a conviction, among Thare is, however, a conviction, anong
leading Sunday-school workers, thite thi libary may be made one of the most efficient helps in the growth of the interest and spirituality of tho school. How suitable bonks to this end may be chosen, and
their distribution properly managed, are their distribution properly managed, are
questions which should bo thoroughly discussed by those in the work.
In order to utilize the library with the best possible results, the teacher must make Sundiay-school literaturo a special study, and ought to lnow the character and contents of every book in his own school library,-certainly of those adapted to the ges and intellects of his own pupils. No person without such special preparations s fitted to fill a position where one of his duties is to clistribute books so wisely that the in
use.

There is also an interesting field of study outside of books, -the inner natures and feelings of his pupils, and their habits and arroundings. The tencher may under ences of his pupil; yet, if ho knows, as well, his home and associations, he can still better adapt to the jupil's needs the books he puts into his hands. Without intimate knowledge of both book and boy, he maty do an injury.
Any collection of books can be made of intrinsic value to young people only when heir reading is directed by older, and wise Sunday-school class to eagerly clutch and carry off books because of attractive bindings, titles, or pictures, is foolish and harmful, and the one of the principal factors in rippling and usefulness of the library. Only the tencher who studies the characteristics, peculiarities, and attainments, of
every pupil in lis class as he studies the overy pupil in lis class as he studies the
contonts of the library, is able to adnjt the contents of the library, is able to adapt
ne to tho other with the best results.
No liburim should ever be expected
No libumim should ever be expected or permitted to furnish pupils with books. Still less should they be allowed expa
sively to select for themselves. Juery ively to select for themselve to nown nown liberty, and yet practically keep the distribution of books in his own hands. If the card system is used, he must surgest, advise, and be familiar with every number Fhat finally roes down upon the cards.
sities, may be reached and corrected by ooks wisely chosen to that end.
The teacher who is determined to secure very benefit to bo derived from the library vill skilfully lend each pupil to talk abou the book he has last read. His expressed impressions of it, and its noticeable effect
upon him, will enable him to see from his upon bim, will enable him to see from his standpoint, and will be of inesti
A much urged objection to the library is that it consumes so much of the valuable time of the class. The objection would be valid one did experience prove that, skilfully landled, the libiary fails of its purpose. Sinco the opposite is an estabished fict, the question is settled by the axiom that "time, as well as other comnodities, must be distributed so as triaccomplish the most good." The teacher must nave a portion of his allotted time devoted to the library. Then he must jealously guard each division of precious moments rom the encronchments of the other. His bility to utilize every moment, and his rapidity in exchanging them.
Every Sundry-school worker should carnestly combat the permecious impression that the library is simply a means of amusement: Only when it comes to be recogized as a practical factor in the successful orking of the school, will it be given its duo prominence and fulfil the highest expectatio
Times.

THE GLORY OF THE YEAR. Is thy lifo summer passing?
Think not thy jors are o'er? hou hast not seen what autumn For thee may have in store. Calmer than breczy April, Coolor than August blaze, Tho fairest time of all may be September's golden days. Press on, though summer waneth, And falter not, nor fear,

## The glory of the the ant

Frances Ir. Havergal.

## SCHOLARS' NOTES.

(From Westminster Question Book.)
LESSON V.-TANUARI 31, 1892. THE SUFFERING SAVIOUR.-Isnialt 53: 1-12. MIT TO MEMORY VS
GOLDEN TEXT.
The Lord hath laid on him the iniquity of us HOME READINGS,

 LESSON PLAN.
I. The Rejcetted Saviour. Vs. 1-3.

Trame.-b.c. ti2; Hezekiah king of Judah.
Prace- - Terusite
OPENING WORDS.
In this lesson wo have a rivid pieture of the nore than seven hundred sears before his adet vent. Remember that thesc sufferings were en.
dured for us, and that Christ's death is our only
lope of life cternal hope of life cternal.
IIELPS IN STUDYING.
 ment. Desive him-be attracted to him, 3. We
hedil-Revised Version, "And as ono from, whom
men hide their face, he was despised."



fering and denth. Will r Iziviac-cruse him to
tercession - not merely in the restricted sense of prayer for others, but in the wider one of meriSnviour cver liveth in heaven to make interces.
ion for us. sion for us.

Questions.
Intronocrour - What was the subject of the
 hodelivered ? Titio of thislosson? Goldon Trext? I. Thit Rejectisd Saviour. ve. 1-3.-What two
questions docs tho prophet ask? Meaning of
theso questions? What isforetold of the Saviour?
How will men trent him? How wn in Jesus? What great privilege did he give II. Thr Aromng Saviour. Ys, 4.9.- Whint did
the Saviour do for us? How did wo estecm him? For whour did her suffer How were omit ini-
Huities had upon him? How did ho bear his sufquities laid upon him? How did ho bear his sup-
ferings? For whom Wan he stricken? Whint is
said oo his burinl Of what wns ho guilless?
Whercin consisteth Christ's humilintion? Whercin consisteth Christ's humiliation?
III. Tins Vicrontous SAvioun. vs. 10-12.shall be the fruit of his suffering? How shall
thoso hance bejustifid What fruits of victory sh
ored?

PRACTICAL LESSONS LEARNED. 1. Christ loved us and pavo himsolf for us
He bore the pennlty of our sins 3. He over liveth to mnlis intercession for u 3. Besides him there is no other Saviour.
5. We should love him who thus loved us.

## REVIRW QUESTIONS.

1. What does the wrophet predict concerning
the Saviour? Ans. TIe is despised and rejected the Saviour? Ans. He is despised and rejected
of men; a man of sorrows and acquninted with gricf. For whom did he suffer Ans. He was
wound for our trangressions, he was bruised fo: our iniguitios.
b. How did ho benr his sufferings? Ans. He is
brought ns a lamb brought as a lamb to the slaughter, and as an
sheep beforc her shenrers is dumb, so he opencth not his month. He Whant shnil be the Snviour's reward? Ans. Fe shan see his sed, he shall prolong his dars.
and the plensure of the Lord shall prosper in his

LIESSON VI.-FEBRUARY 7, 1892 THE GRACIOUS CALLL.-Isniah 55:1-13.

COMMIT to memory ve. G.8.

> GOLDEN TEXT.
"Scek ye the Lord white he may be found, call
upon him while he is ncar."-Isainh $\bar{\sigma}: 0$, HOME READINGS.

LESSON PLAN,
II. $A$ Call to Fraith. vs. $1-5$.
III. A Call to Repentance. Ys. $\mathrm{G}-9$.

Time.-b.c. 712 : Hezekinh king of Judnh.
Place.-Jerusnlem.
OPENING WORDS.
The prophct, in our last iesson forctold tho
 theso vicarious sufferings, and in our losson to-
day he calls upnall to como and partike of tho
satisf ying blessings which have been pro day he calls upon all to como and partuke of tho
sntisfying blessings which have been provided for
them:-
them. HELP IN STUDYING THE LESSON. 1. Thirstcth - carnestly desire salvationi,
Traters-living waters of salvation. 2, Is not
brectl-docs not satisfy brated-does not satisfy the hunger of the soul
3. brccul-does not satisfy the hunger of the soul.
3. Inclinc your car-listen and obey, Your soul
shatl live-livo ar true lifo for over. The sule
per merecics of Davill- the nercics promised to Davia
in the Micssial. Sce 2 Sam. Fis-16. For a $a$ witness-to testify salvation tio tho Gentiles.
S. Thou- Hes Messinh. Shalt call-in God's
kingdom. Snovect not - hast not bestowed


 God has spoken. That wach A plcase-the pur-
pose for which God has sentit. 13. For a name-
for a perpetual memorial to his glory.

Queswions.
Introductone - What was the subject of the
ast lesson? Why did Christ suffer and dio INTRODUCTORY, What was the subject of the
last lesson? Why did Christ sufter and dio
Titic of this lesson? Golden Trext? Lesson Plon? lime? Place? Memory verses?
 chese blessings offered? How is tho call ant
fored? What is promised to those who hed fored? What is promised to those who heed
the call? What is finth in Josus Christ? For
whint is Christ given of God? What is snid of his
Work among the nations?

## II. A Cali, to Reipentance. vs. $6 \cdot 9$ - -When

 upon him? What call is next given? Whatought every simner to do? What is untolife? What mromiso is given to every re-
penting simer? What does thic penting simer? What does the Lord say of his
thourlits mh ways? How do they differ from
the thonghts and ways of men? III. A CAML To BLusssing. vs. T0-13,-How is
God's word like thic rain amd snow? Whatishnh1 accomplish? How is tha Show Word mado clicelanal
in salvation? What blessinger the belicving, repenting singer? Uromised to
inages is the greatness of these blessings ex.
prossed PRACTICAL LESSONS LIAARNED.

## 1. God offers salvation to all, "without money

and without price."
2. We must repent and return to God if wo 2. We must ropent and return to God if we
would havo pardon and etcrnaljife.
3. Wo must show the reality of our ropentance by forsaling our sinful ways
d. God's word shall bear fruit in the salvation

## REVIETV QUESTIONS

Ans. Come to Christ and receive his sal jesson ? 2. What are the wicked exchorted to do dition. Let the wicked forshote his wny wind the uns.
rightoous man his thoughts; and ot him return
unto tho Lord, anto tho Lord,
3. What
Ans. The Lort will have mercy and will abun-
dantly pardon.
4. What doos the Lord declare concerning his
word? Ans, It shall not return unto me
word? Ans, It shall not recture concerning his
itshall prosper in tho thing whereto I sent it.

## THE HOUSEHOLD.

## SOME THINGS AT THE BEGINNING.

A young house-keeper will never do amy better than to begin her oversight and care
at the very foundition of her house and home-with the cellar, the kitchen, and the pantry. In fact, she may oven begin outside tho kitchen proper, with-the firstidious reader forgive us-the swill pail, and
at a glance see for herself if there is nnyat a glance see for herself if there is any-
thing there thit. should have been saved thing there that. should have been saved
for making over into breakfast or side dishes, or that could better havo been put with the soap grease; and she can go further still, and see that tho. soilu) grease is siwed, and that it is her own perquisite, and not the maid's. Sho will go into her cellar, and if things are kept thero in quatitity, she will wake sure that they are kept in, the right way; that there is, for instance, a weight on the top of the pork
barel, if she has pork, that will make its barrel, if she has pork, that will make its
contents stay under the brine: she will see if the apples are decaying there, and if so, have them picked over, and the bad ones cast out; she will see if the parsmips are
under sand, if the onions are in the dryest corner, if the squashes uro where it is dry ind just removed from freezing, and if any of the vegetables are sprouting, in which case they must be put in in darker spot and used as soon as possible ; she must sec that there is some light and a sufficient circulation of air, and that the swinging sheif is well out of the way of the rats, and free from dust and mould. In her pantry she must look to the Indian meal, among other things, and have it stirred now and then to let in the air and stone in it for the same purpose ; she will have her lard and her suet liept in tin reshave her lard and her suet kept in tin res-
sels instead of in stone or earthen jins; she will look at her bread boxes, and judge she will look at her bread boxes, and judge
if they are aired and sweet, or capable of giving a musty fivor to the brearl, and if the fragments and crusts are sived for the varions uses to which they can be put ; and she will see that all the articles in the place are kept in tight buckets and boxes, and not in the papers in which they c.me from the grocery. In the kitchen, perhips, she with the becinning and to be able to bey cooking stove gridually heited, iustend of being warped and cracked by a sudden oxtreme of temporature ; and she will have and brourht to the boil, with a handful of bran thrown in to toughen the glazing, and provent it from injury by acids. She will hive the lamp cloths (if she does not use gis) washed and dried, and not thrown
down in that oily condition in which they down in that oily condition in which they that her new knives aro not plungod into hot water that will loosen and discolor the
handles, and will instruct her maid that handles, and will instruct her maid that
when discolored brisk rubbing with simclpaper will do a great deal towirds restor ing tho original appeanionce of these linife handles ; and she will have those that are to bo put away wripped in paper, and not wire is clean and scalded often; that there is a bountiful supply of holders, rollors, and dish towels; thit there sloould bo thre brooms, the curpet broom, never to be used on the bire floor; the kitchen broom, never to be used on the steps and out-door walks; to be used on the stepsind out-door walks; the yard broomnever to be broughtitinto the
house; that the clothes-line is tiken down when the wash is brought in, and the When the wash is brought in, and the
clothes-pins gathered and counted at tho same time.
In other parts of the house she will look at her rugs and carpets; she will remember
that ox-gall, procured of her butcher, if she will give him a vial for it, and used in the proportion of a tablespoonful to a gillon of warm water, a coarse sponge wrung out of it and passod over the carpet's surface after swouping, will set tha colors and keep them bright and fresh much longer than any other treatment ; and that, moreover, her carpets should bo swept with the large broom as littlo as possible, as the broom is it great destroyur of the fibre and fabric. Here she will examine her pillows, and if wy of them have a disagreable odor, she will have them emptied, and tho fenthers trented to in bath of hot soapsuds, 'and then spread in a sunny place, after which they will return to their original lightness and
freshness. If she has inherited old mat-
tresses, or if such have been given to her, she will have them tiken out on the piazza, or into some vicant room, and have all the hair picked over and pulled apart, and the cover washed, the hair laid on agnin in regular layers, and partly tufted into place with a long upholstery needle before closing all the soams of the ticking. She will, llow any marble in hor honse to be washed with soapsuds, which takesaway the crluss but will run an oiled raig over $i t$, and then rub it smooth and dry nnd clean with soft cluth or chamois. And, passing by a host of other affairs, she will keep her medicine closet stocked with the fow articles necessary for any sudden entergency of cuts, necessary for any sudden entergency of cuts,
burns, breaks, wounds, or bruises, together burns, breaks, wounds, or bruises, together
with ginger, castor-oil, ammonia, camphor with ginger, castor-oil, ammomin, camphor
and alcolol. And when all these things and alcolol. And when all these things
are done, she will remember that there are still some others she should not lenve un done.-Harper's Bazar.

## THE BOYS' ROOM.

Consult your boys in the furnishing of their room, and let them help you with it as much as possible; they will take more Inide in it if you do.
In most cases you will find they have decided opinions of their own in regard to arringement of furniture, and a preference or certain colors.
Hive everything as strong and substan tial as possible. Do not milke over a carpet that has become thin and old; it will not pay ; rather do without one, and paint the floor some bright, warm tint, not a dust-mark of boots.
A boy ought to be consulted, if possible, when selecting wall paper for his room. A pretty, bright paper can be purchased for Arom twelve to twenty cents per roll. Get some short remmants of Brussels carpet, some short remmants of Brussels carpet,-
they cin be purchased very cheaply, bind they can be purchased very cheaply, bund
and tack them securely in front of burealu, and tack them secur
washstind and bed.
With a few suggestions and carpenter's ools a boy can ensily construct a cabinet with shelves from a large packing-box, and paint it with the prepared paint that comes eady for use.
Iring a curtain before it of some brightfowered chinta, and help the boys arrange their treasures in the shirpe of birds' eggs, geological specimens, different bits of A comfortable arm-chair, with plump, nvitiug cushions, is appreciated by tired boys as well as tired mothers.
If you expect a boy to be neat and careful of his belongings, you should take pains you can that will help him to be so.

A box for his boots and shoes will be of grent assistance, and with a fow sugges-
ions he will be able to make it himself, tions he will be able to
from a grocer's suap box.
rom a grocer's soap box.
The inside should be lined with oilcloth, and the outside painted to matel the cabinet. A cushion covered with chinta can be tacked to the cover of the box, which will answer for a sent when closed. the way of bathing and preparing his toilet with a firm, strong brush for clothes, and set of brushes for blacking boots and Thoes.
The furniture should be strong, that is the first requisite, and the rom should bo for bureau ned washstand, that covers laundered every week if necessary.
Tiack some narrow ribbon criss-cross on the wall by means of large, brass-headed tacks, which will serve to hold photographs and other pictures which boys are so fond f collecting.
Make a pretty pinchusion for the bureau, large enough for an abundance of pins, handkerchief-box, is slipper-case for the wall. with a few other dainty bits of fincy work seattered here and there nbout the room, which tell their own stcry of somelove for" "the boy.
Scrim curtains, looped back with bands of tho same, mike pratty, inoxpensive vindow daperies, and launder ensily.
Provide one or two hanging book-shelves or books, and photographic copies of some good paintings, simply framed, and hang first thing in tho morning and the last thing at night.

In after yenrs, wherever lie may sec rooin to him.
Do not forget to place a Bible on a little stand covered with a pretty, white cloth and let theye be a few loving words on the fly-leaf, written in tho mother's lonnd, to emind him that it was her gift to him.
A boy's room ought to be a bright, cheery spot, to which lie can invite his schro pleasure from visits elsewhere.-Maryaret Rexford in the Household.

BAKED MBATS"-A CHAPTER ON Warming OVER.
by mene widdrater hartr
As a rule the family of a young house keeper is small. This makes it more diti cult to have a good tible. Small roasts or and from not nearly as good is laverh lef over, which if it is not used, makes the meat too expensive. I have known small families who never had a roast beanse they would not havo a small one, and did not know what to do with what would be left from a large one. There aro plenty of very ice things which can be dono with these "baked ments." Let us begin with veal. It is nice as a roast, and everyone enjoys it, and are plased to meet it cut cold for lunch. But still thare is some left, and you are morally cartain they will not touch tagain in that form. Ion camot aflord to throw it away. I don't know of any one who can ifford to wiste good food, on who would dine bo so wicked. Perhaps you have made salad of it sometimes; I camot altogether approve of veal salad; it is extreme:y indisyestible, and not unfrequently the cause of ilhess. A luetter way is to make a ment cakc. Chop the cold aal very fine, season with pepper and salt little grated lemon jeel or powdored hyme; add an equal quantity of bread crumbs moistence win mik, one beaten egg, and a half cup or more of cream or milk ; bake this in a decp buttered dish. It must be solid when it is cold. It is nice then for either tea ol lunch, cut in slices. Or the veal can servo for another dinner by making a pie of it. Lime a pudding dish with piecrerust, and fill with alternate layers of veal and potatoes, both
cut small; season well with butter, pepper and salt, and then put on the top crust and and silt
bakic.

A mice breakfast dish can be mado by chopping the verl very fine, adding a few little parsley ind sensoning. Form this into cakes, dip them into beaten egg, then into bread crumbs, and fry in hot lard Veal chopped very fine also makes a nice onelet. To six eggs add two tablespoonfuls of chopper voal, season with pepper, salt and parsley, beat well torcther and fry the same as a plain onelet. The knuckle of veal makes a nico soup stock; add to it a bunch of sweet herbs, a slice of cold vend minced fine, also a slice of bread boiled in nd a little mace.
If you have boiled more eggs for breakast than were eaten, they need not be wasted. Put them in water again and boil them till solid. They cin then be used for salad, or for esg sandwiches. To make the atter, peel the eags when quite cold, and after taking a little white of each end these between bread and butter. This is ery nice for luncheon or to tike on pic nics. Builed ham left over is, of course nice cut cold. Another way to utilize it,
is to chop it very fine, mix with a little mustard and make sandwiches. This is change from the degulation cold ham, and makes a dish forlunch or supper. A salid cain bo macde of cold ham; make it as you omelet. Chop the ham very fine, breal and beat well enough of ergs to mix with the quantity of han you have; you can easily judgc. Fry as you would. any omelot. Cold fried Jam can bo used in the same manner. An appetizing way to cook this latter is to cut in small clice pour milk over it, put it in a pan and let it boil, and when boiled thicken the milk by
adding a little flour and water, nicely mixed as for gravy. Cold matton may bo warmed over, and
made do very well for a second dinner.

Wha, it in thickly buttered paper and put and let it romain long enongh to get hot through, but not to cook. Make a gravy to sorve with it. If tho joint camnot be covered in the oven, another way is to put
it in a pot over the fire without water, but it in a pot over the fire without water, but with a dessert spoonful of vinegar. Let it getheated through and serve with vinegile sauce. For a breakfast dish, cut cold mutton into slices, season with cayenne pepper and salt ; melt in small piece of butter in a frying pan, and add two blades of mace: turn them once, dust in a littlo flour, and stir in a half a teacup of jelly; stir till the jelly is melted. Another way to warm over mutton is to cut it, if a loin, into chops, or a leg into thick collops, and dip ach into egcr well benten with a tablespoonful of mill;, then dipit into very fine bread crumbs and fry quickly in plenty of hot lard. Instend of being breaded, they may be dipped into thick bitter and fried. Any kind of meat or chicken may be warmed over in this way. - Choistian at Wow.

## RECIPES.

Fried Bread.-Cut:somo bread, which, though stale is still lightand soff, into Angers half an
inch thick, dip then in mill, and lat then drain
 fashion, in anot dish, and serve with gravy.
Potato Farer.-Pare potatoes ind cut them in
halves; scoop out the centres in cup shan halves; scoop out the centres min cup shape.
Clop some cold cooked meat and miil wih alitio sensoning and melted butter Finl the potato cups with itis, and bako in the oven till done
Tho scooped out polato can bo used for mashed

Baked Poratoes.-Forlunchcon or supper hot mike a healthful aud tempting dish for schooi chiidren and others. Selecti potatocs of uniform size and have then thoroughly
a hot oven and batic one hour:
Buciewieat Caices.-Take onequart of water, thicken with buckwhent flour, add hralf a cup-
ful of potato ycast, and a pinch of satt ; let it rise
 been wet with hot water. The mea makes the
cakes tender and holps to keep then good in slape. When ready to soda dissolved.
Potten Beer,-Boil a beet shank in enonidh Water to cover till very tender and all the
wchatin is cxtracted, and the mat falling from
the bonc. Remove an tho gristlo and bono, and the bone. Remove all tho gristlo and bono, and
chop the meat very fine. Replacitin theliquor,
of which lhere should bo about of Which there should be about n quart. Scason
Fith snit, peppor, mace, and $n$ dash of cayenno
to the taste. Pour in adecp bowl to cool. fit will to the taste. lPour in n decp bowl to cool. 1t will
bonrtly joly, and solid when cold, and can becut bopartly jolly, and solid when cold, and can be cut
in slices. It is a delicions relish forlunch or toa.
Another way to potibecf is to cut it up small as
 ittle salt, pepper, Hround cloves and cimanmon,
So continue until all tho meat is ised. Pourover
nll $n$ cupful of vinegar and water. equal parts, to nbout thre pounds of ment. Cover the pail
closely, nand set it jnto a ketile of boiling wancp,
and cook slowly for at least four hours. This is adelicious cold relish.

PUZZLES RO. 1.
scriptuine exercise.

1. I have coveted no man's silver, or gold, or 1. Incl.
a Thou
beforc Co
bundle of sonl of my lord shall be bound in the
2. Art Glowsen ant thou stranger in Jerusalem
art thou among women. These rerses now look out, Each speaher's name:
Two women here sire sen: Anothct long has becn The rest are more obscurc, One blances ifricnd for sin The ohncr find within
Initials tell us what, at Jesus' birth Thise down from God, a gracions pift to carth; This same, when Josus bndo his last adicu,
He said in love, "I give and leave with you.
$A$ is the father of ruzalie. $A$ is the father of yoology
$B$ is the Ayreshire poet.
$C$ is the $B$ is the Ayreshire poet.
C is the hast of the ptolmies.
is the hughing philosonine is the haghing philosopher.
is the Ronan Homer. is "Poom Richard",
is the "hero tho read shirt.
His the poct of the Helots.
is tho fricnd of Columbus.
is old Hicloors., is "Olli Hicliory" Shatespmeran acrostic 1. A character in Richard III. 2. A character

 The primals spell the namo of one of Shake-

ANSIVERS TO PUZZLLES No. 25. Scripture Eniami.-1 Sam. vi., G-14. Enigma-A hite.
Drcapitation:-Many, amy
PuzzLe,-Unito, untic.


The Family Circle.
CONTENTMENT.

## by m. e. kensmy.

I ask not that my path should nlways be By waters still,
Nor do I pray that thou shoulast shelter me rrom every ill.
I nu content, dear father, if thy love If I may walk so closely at thy side I cannot stray.
I do not pray from sorrow's chnstoning touch I mas be frec,
Nor that thy pitying tenderness would litt My cross from me;
I know thy wisdom sceth greater gain In every loss,
And that it is thy love and thonght for me That sendsmy cross.
When thou wouldst have me serve thee, dearest Lord,
Thatit Imay scrvens best
linough it is And chooso my task. Servicignest to accept Serviec fromme.
Whatever taski isset by thy dear hand Shall joyous be

## If thou wouldst have me wait with folded hands

 Shall I refuseBeenuse my love for theo some worthy task Would glady choose?
Nay, sinee thy will is wholly worked in me
And I an thine, And I ant thine,
Can 1 not fully trust myself to thee
And not repine

CAPTAIN JANUARY.

## (By Laura E. Richards.)

## Chapter VI.-the signal.

Quetly passed the days, the weeks, the months, in tha lonely tower on the rock fronting the Atlantic surge. Winter came, decked it with frost-jewels. Like a pillin of ice, the tower slone in the keen brilliance of the northern sun; but within was always summer, the summer of perfect.
patee and contentment. To the child Star, winter was always a season of great delight ; for Captain Jomuary had little to occupy him out of doors, and could devote much of his time to her. So there were
long delightful "jack-knife times" ns stow long, delightful " jack-knife times," as Stiar called them, when tho Captain sat fashion-
ing all sorts of wonderful trifles with his magic lknife, the child sitting at his ellow and watching him with happy eyes. There
were "story times," instituted years before, as soon as Star'lad learned to sew on patchwork; for as for sewing without : story to listen to, "that," said Star, "is
araiust my nature, Daddy. And youdon't wian me to do things that are against my nature, do you ? So whenever the squares of gay calico came out, ind the
colden head bent to and fro over themn like a paradise bird hovering over in hed of graty flowers, the story cinne out too, the fire crackling an accompaniment, sputtering definnce to the wind that whistled outshe wild tropic islands, of cornl reefs and
the and pearl-fisheries, sharks and devil-fish; or else a whaling story, fresh and breezy as the north, full of icebergs, and seal-hunts over the cracking floes, polnr boars, and all the wild delights of whale-fishing.
Then, on fune days (and oh, but the drys are finc, in these glorinus northern win-
ters!) there wis much joy to be had out of ters!) there wis much joy to be had out of
doors. For there was a spot in the little meallow,-once of gold-llecked emerald, now of spotless, peari,-i spot where tho ground "tilted," to use Star's expression fairy spring bubbled out of the rock into a faryy lake. In summmer, Star rather des-
pised this lake, which wis, truth to pised this lake, which was, truth to tell, only twenty fect long and ten feet wide.
It was very nice for Imowen to drink fron It was very nice for Imogen to drink from
and to stand in on hot days, and it did and to stand in on hot days, and it did
many lovely things in the way of reflecting many lovely things in the wry of reflecting
blue skies and fleecy clouds and delicate
traceries of leaf and bough; but as water, it seemed a very trifling thing to a chind who had the whole sweep of the Athantic to fill her eyes, and who hide tho
for her playfellows and gossips.
But in wintar matters wer
But in wintar matters were different. All the laughing lips of ripples, all the white tossing crests of waves, must content themselves with the ice-bound rocks, till spring should bring them their child-comrade again; and the little sheet of clark crystal in the hollow of the mendow had things all its own way, and mirrored back her bright face every day. The little red sled, lnunched at the top of the cit, like an arrow over the smooth ice, kept always clear of snow by the Captain's everbusy hands ; or else, when tired of constbusy hands; or else, when tired of const-
ing, the child would plant her small feet wide apart, and slide, and run, and slide agin, till the pond could have cracked with pleasure, if such a thing had been in conclance with its principles.
But of all the joyous hours, none was more welcome to the child than that after the simple supper was cleared away and the room "redded up." Then, while fire and lamplight made their merriest cheer, the table was drawn up to the warmest spot ; Star took her place upon Captain Janumry's knee, and the two heads, the silver one and the golden, bent in absorbed interest over
Good Book.
Generally the Captain read aloud, but sometimes they read the parts in turn; and and recite whole passares alone, with a fir and pathos which might have been that of Maid Marjorie, swaying at her childish will the heart of Sir Wilter and his friends. So quietly, in the unbroken peace which So quictly, in the unbroken peace which
love brightened into joy, the winter passed.
at Christmas, they had, as usual, in visit from the faithful Bob, who brought all his many pockets full of candy and oringes and atl manner of "truck," as he called it, for Missy Star. Also he brought a letter and a box directed only to "Captain January's Star." The letter, which the child opened with wondering eagerness, being the first she had ever received, was from Mrs. Morshe had ever received, wasfrom ans. Mor-
ton. It was full of tender and loving words, wishes for Christmas cheer nud New Year blessing, and with it was a photograph of the benutifule face, with its soft and tender eyes, which Star remembered
sn well. On the back was written, "For ittle Star, from Aunt Isabel." And the box? Why that was quite as wonderful in its way. For it contained $a$ beautiful present for the Captain, and oh! oh! uch dolls, but Star never had; a bluo eyed waxen beauty, with fringed lashes that opened and shut, rose-leifocheeks, and inbulous weatth of silky flaxen curls. Also thad $a$ blue velvet frock, and its under clothing was a wonder to behold; and the one was full of other frooks and gar Starts.
Star took the doll in her arms with de lighted nwe, and seemed for a few anoments absorbed in her new trensure. Pres ently, however, a shadow crossed her bright ace. She glanced at Bob and the Captain, busy talk, she quietly went up to her own room, cirrying the doll with her. Here she did a stringe thing. She crossed the room to the corner where Mrs. Neptune room to the corner where Mrs. Neptume
sat; with her back rigid, protesting against circumstances, and set the radiant strange down beside her ; then, with her hands clasped behind her, and brows bent, sle
considered the pair long and attentively. Truly they were a strange contrast; the delicito. glowing, velvet-clad doll, and the battered old wooden image, with eyes of snail-shells and hair of brown sen-moss. But when Star had finished her scrutiny, she took the beautiful doll, and buried it deep under velvets and satins at the very bottom of the grent chest. This done, she
kissed Mrs. Neptune solemnly, med proceeded to adorn her with a gorgeous Eastem scarf, the very, gayest her treasurebouse could afford.
Meanwhile, in tho room below, the talk went on, grave and earnest. Trouble it was, too, on one. side; for though the Cap-
tain sat quietly in his chair, and spoke in his usual cheerful voice, Bob Pect's rough tones were harsh and broken, and he rose from his place once or
uneasily about the room.
"Cap'n," he sind, "'tin'tso. Don't tell me! Strong min-hearty-live twenty years yet-like's not thirty! Uncle o'mine chicken."
Captain Jannary putted at his pipe in silence for some minites. "Bob," he suid, presently; "it ain't always as it's given to ia man to know his time. I've allers thought I should take it particular kind if it 'corded with the Lord's views to let me know when he was ready for me. And now that he has let me know, and moreover has set my mind at ease about the child that it's in pleasure to think of, why, it ain't likely I shall take it anyway but kind. Thankin' you all the same, Bob, as have been a good mate to me, and as I sha'n't forget wherever I am. But see now the added
hastily, hearing a sound in the room above. "You understand, Bob? I h'ist that sig nal, as it might bo to-morrow, and I kee her flyin' night and day. A nd so long as you see her flyin', you says, 'Car'1n's all right so fire!' you says. But you keep a sharp lookout; and if some mornin' you you soys her, you silys, 'Salla' Nazro as never failed in a kindness yet, nor ain't likely to, to take the wheel, and you put for this island. And Cap'n Nazro he takes the "Huntress" in, and then groes straightway and sends a telegraft to the lady and gentleman, sayin' as Cap'a January has sailin' orders, and they please to come and take the chiild, as lawfully to them belongs. And you, Bob-"'the old man's steady roice raltered a little, as he laid his hand on the other'sarm- Yount do all you can, well I know. For she'll take it hard, ye see. She has that depth o' love in her little heart, and never nobody to lovo 'cept me since she were a baby, that she'll take it cruel hard. But the Lord'll have her in nind ! and you'll stand by, Bob, and bear
hand till the lady and gentleman come.
Bob Peet held out his honest brown hind, and the two mon shook hands with a certain solemnity ; but before either of them could speak again, Star came singing down the stnirs, and summoned
And so it canne to pass that a little bjue signal was hoisted at the top of the white tower, and fluttered there bravely in sun and wind. And every time the "Munress went thunderng, (which was (ay), Bob Peet looked out anxiously from the wheelhouse window, and seeing the little bunner, took cheer, and rubbed his hands and said, "Cap'n's all right so far:
And Captain January, whenever there came the clatch and stab at his heart, and the struggle for breath, which he had felt for the first time thit september day (bhat increasing persistence!) would creep to the stairway beside which hung the signal lines, and lay his hand on then, and wait ; then, when the spasm passed, would pass his "Whand across his face and humbly sity. "Whenever it seems right, Lord! A step nearer ! and thou havin' the clild in mind, and so go cheerfully about his work again. There were not many more steps to take. Spring came, and the little mendow was ered above Robins and blae-bis swal ows built their nests under the eaves of the tower itself. The child Star sang with the birds, and danced with the dincing leaves, all unconscious of what was coming; but the old Captain's and henvier, day by day, mat the cheery voice grew faobe, and lost its
though never its cheeriness. "I'll sethere
thing though never its cheeriness.," "Ill sethere in the porch, Jewel Bright,' he would saty,
when the child begrged him to come for scranble on the rocks. "I think $I$ 'll jest set here, whore I can see ye m' hear to ye I'a gettin' lazy, Star Pright; that's the truth. Yor old 'Daddy's gettin' lazy, and its comf'tabler sittin' here in the sun, than scramblin' round the rocks.
And Star would fling herself on his neek, and scold and caress him, and then go off with a half-sense of disappointment to her play. Very, very careful Captain January that which he was determined to keep from her to the last. Somotimes he half thought she must suspect, so tender was sho in these
days ; so thoughtful, so mindful of his digs ; so thoughtful " 'to mind only the woman growin' up in her," he decided; and look-
once broken his pipe (as she had been used to do every three or four weeks, in lier sudden rages) since last September:
At last there came a day when tho Captain did not even go out to the porch. It was a lovely May morning, brightand soft; with wreaths of silvery for flonting up from the blue water, and much sweet sound of inging birds and lapping waves in tho air. Making some prete. penter's bench, the old man sent Star out. o loose the cow and lead her to the water, and when she was gone, he tottered to his old chair and sat down heavily. The: was no pain now, only a strunge numbness. creeping coldness, a rimging in the ears. It it might "seem right" to let him wail, till the " Fruntress" came by! "Il's nearly time," he snid half alouc. "Noarly At thi mond be ension the dal At his "But I don't think there can be any harm in my just telling you a little about it Imogen. And the floor is the paved work of a sapphire ; sapphire is a stone, just liko the water over there, in the bluest place, and oh! so clear and bright, Daddy salys. He saty one onco. And there will be most benutiful music, Imogen. On pon hink what lovely music Daddy Cpptain ill play an a Thup the will ' In fect ; and that will be a great thing, Imofect ; and that will be a great thing, mo-
gen ; for he has never known how to play on anything before; and-" Ah! the sweet, childish prattle ; but already it was growing faint upon the old man's ears.
star Bright " he called ; and the dancing slape came flying, and stood on tiptoo in the doorway. Stendy, now, January? seep your voice stendy, if there is any will left in you. Keep your head turned a little away, lest there be any change in your face, yet not turned enough to mako her wonder. "Star Bright," said Captain "Hunry, "it's about-time-fors"-to be along, isn't it?"
"Humtress"-to be along, isn't it?" " she" just in sight now. Shall I go down and wave to Bob as he groes by

Yes, Honeysuckle," said the old man. And-and wait to see if ho come ashoro Tre was coin' to bring-somethin'- for me Is there a squall comin' up, Jevel Bright? ?'

A squall, Daddy?" said the child, wondering
the sloy."
the sky."
ts so!" said Captain January. "T Dear Daddy. Good by, Star Bright.' Dear Daddy" Good by !" cried the child, and she sped away over the rooks. So diurk ! and not a cloud in the sky. If he might havo looked once more, with those fast-darkening eyes, at the little blessed face which held all the world in it ! If he could call her back now, and kiss her once more, ind hold her little hand-No stand by

Quite dark now. But that does not matter. No need of light for what is now to be done. Slowly the old man raises himself : feels for the wall, creeps alons beside it. Here is the line. Is there any strength loft in that benumbed arm? Yes "For the child, dear Lord, and thou helpme, as evor has been!
Down comes the signal, and the old man creeps back to his chair again, and composes limself decently, with reveront, olded hands and head bowed in waiting. is lue holdeth the waters in the hollow of as hing. Behold, he taketh up the isles Ware little thing. Amen? So be it:" apron from the rocks, and laugh and clap your hands for pleasure, as the ripples from the steamer's bow break in snowy foam at your fect. Bend to your oar, Bob Peet, and send your little black boat flying over the water as she never flew before! and press on, friendly "Huntress," to your port, whence the winged message may speed on its way to the stately lady with the tender cyes, whon waits for tidings in her distant home. For Captain January's last voyage is over, and he is already in the haven where he would be.

## the end.

Or ali the Mearsplaced by Providence within our reach, whereby we may lead
souls to him, there is one more blessed than anl others-intercessory prayer.-Trom ' Goll Dust.'

A BIT OF THE HOLY LAND. A most interesting rocord of travel in Palestine is just now being publishred in the Sunday at Hom
Many people, says Adelia Gates, the
writer, go to the Holy Lind, and many writer, go to the Holy Land, and many more would go there but for the great expense of the journey. As ordinarily undertiken, the journey to Jerusulem is very expensive, and it is also very disappointing by reason of the haste with which the traveller is hustled from one place to another. Twenty minutes for seeing the Dead Scar is a frequent allowance, and the timo for visiting other places is doled out in the sime parsimonicous fashion. This is tho system of the dragoman : and most people travel in charge of one of theso chartered conductors, being afmid to trust themselves to the mercies of nitives whose language they camnot speak.
whe writer of these "Wanderings" travolled all through the Holy Land without and stayed as long as she liked, therefore and stayed as long as sho liked, therefore
she sinw more thm most travellers see She silv more that most travellers see.
There is yot nother way in which she differs from most travellers in the Foly Land: she is, emplaticully, a poor pilgrim, and accomplishos her many wanderings on an income that would hardly suffice to live on at home with more than the minimum of comfort. As these letters form the simple record of how she lived day after diay mad where she went, and how she travelled they may help the reader to miderstand how much may be accomplished on a very
slender income. This jour slender income. This jour-
ney throught the Holy Land was mercly the appendix as it were, of a still more difficult undertaking, namely, in joumey through the
Northeru Sahara which had just been brourlat to is successful conclusion, and the record of which, under the record of "'The Chronicles of title of "Mo hid," may now be read
the Sill the Sid," may now
in the Jeisure How.
How can I fitly describe the telrible landing at steimer to approach the shore, she must ancher in the roads a half mile distant, and sometimes in rough weather it is impossible to dischargo passengers. A gentleman told me that ho was once obliged to go on with his family and household goods to Beyrout and bring them by land from there to Jerusilem, with much hardship and great expense.
The last boat before this, was forced to carry her eighty passengers on to Hiaifa, a nearer port than

Beyrout.
An old lady whom I had promised to see after, I found in woful plight. She hat been sea-sick, she haud been tossed hither and thither, she had been thrown from her improvised bediamong the bnggage against the corner of a chest, geten bad bruse on the face. I bathed it and courtplastered it; I brought her a cup, of hot coffee and comforted her as well as I could, poor soul, and stiyed by her in the dreadeful trial of being got into ono of the rowboats that ply between ship and shore.
Having brought my tritting luggage on deck, I ran back for it parcel, and returning a moment, later, behold, my uubreclia was gone! The steward stid, "Aht, it is snatched up by some one of those thievish Aribs who crowd on bonrd to get it job, Aribs who crowd on board to get it jober
and and it's not the least use trying to recover
it. One must keep his eyes on his baggage every minute.
I remained a long time watching the singular and exciting scene as the boats with immense difficulty, and often after many fruitless attempts, secured ench its complenent of goods and men. Seizing the moment when after much coquetting a friendly wave heaved the boat agrinst the steamer's side, two sure-cyed sailors drop a cask, or bag, or man, into the bont, drop a ensk, or bay, or man, into the boat,
or rather into the outstrotchocl nrms of two equally sure-eyed men below. Not a two equally sure-eyed men bolow. Not a
moment too late must it be, for sonetimes
the boat rolls quickly back from the ship as if conscious of having committed a misdememor.
Sometimes, but rarely, the miscnlenhtion of in instant, or an unexpected vicious lurch on the part of the boat,, causes the plunge of a parcknge into tho sea.- It has happened, too, that in nervous woman, ap away below, has at the critical moment refused to let. herself fall from the four strong arms that held her, into the four strong arms avaiting her, and clutching at a rope or a mail or any near object, has risked or mot a catastrophe.
I suppose it was to quiet our: fears and inspire us with courage that the bystanders told us of a hady who was so badly hurt the they feared for her lifo, and of anclutch jus, renewing for an instane heo ment too into in filling and somehow missing the arms as the boit swerved off, fell across the gunwale and broke her back. If one can cast out fas: und yield oneself utterly, thero is no danger ; but a weak woman may be excused if in such in ordoal her courage and self-control fail. It is like the monent before $n$ tooth is drawn, only there is much more at stake. At last "we all got safo to land" and safe through the custom-house ; and I vould go through it all again, if so I might again seo Palestinc. There is little in Juffia to detain one, and a day sufficed me. It times keeper. pay.' mino. bably
times.
and after a little more on that subject, we fell i-talking about the country and the government, this last mamed impersonality as usual faring badly at our hands.

The little man directed me to in inn-
"Tell him," he said, "to send you to Jerusalem is we go, and for the price we
found the imm-keeper without any difficulty, stated my wish, and he said it wa quite practicable. Then we also dropped ensily into conversation abont various things. Indeed, I always find that most persons are as willing to answer inquiries Findly put in regard to their comatry, as I am glad to make them.
When at last I rose, saying: "Then you can help me?" he roplied cordially, "I can and I will." He accompanied me to the right plice, from which the plainer, cheaper rehicles of the common people started spole a little with mon people started, sione ne me with one o day it i very moderate price, then with friendly wishes went his way, and I went

In the early fresh morning I set off: Though not smart, the carriage was sufticicntly comfortable. I was sheltered from the sun, I had a good view, and the paissengers were plain, civi-spoken men. One was an Arab, in a dress such as was pro

hside the heef of hocks at ahra.
is finely situated, and is beantiful as seen from the sea. The site of the houso of Simon the Tamer is pointed out, and some old walls are shown as the remains of the house of Tabithan ; but their claim is dis credited by all intelligent Bible students The survounding country, though superficiully sandy, is at a very slight depth exceedingly fertile, with plenty of wate available. The orange culture, begun fifty years ago, has had a very considerable oxtension, and forms one of the charms, as
well as the chief scource of woalth of the place.
I would go leisurely to Jerusalem. I would not willingly pay the extortionate price demanded by my lavidlord for' a seat in the carriage which was to go from the hotel next morning, and in which I should be the only passenger. Had he not asked me ten-pence for is lithlo cup of milk, and other things in proportion ? No, I would
look further. Strolling through the town I asked my way of a kind-faced little man in the doorway of a little workshop. Then I asked for a glass of water, and then I asked about the best way of getting to Jerusalem, at the same.time naming the price asked by my host.
"Oh, that is tourist price, we common folks do not pay that, we go in another fashion."

Then will you kindly put me in the
"Why do you Europenns change the style of your dress so often?" an Arrib ance asked mo. When you have a good keep it?"

## And I could not answer him.

With the man next me I hard much interesting conversation. He went all the way toj jerusalem, twelve or thirteen hours; for they prefer to measure distance by hours mither than by miles, as is common in many other countrics. He thought that with a half-way honest govermment there would be a more ready investment of cupital, that the whole region around Jaffi would then become richly productive, and that irrigation would render fertile much land that now is valueless. Jitfia alrcady possesses about 350 ormge orchards of from 2,000 to 3,000 trees ench, the fruit of which is highly esteemed, and is exported to Jigypt, Turkey and Europe.
The plain of Sharon, stretching far rilong the coast northward, is, like the country round Jaffit, sandy on the surface, but rich bolow, with plenty of water that, by simple and inexpensivo means, might be easily distributed. Irrigation could soon make this whole plain of Sharon again blossom as the rose. Many hopeful hearts feel the time near when the word of the Lord shall be fulfilled. "Sharon shall be a fold of flocks, and the valley of Achor a
people that have sought me." It is thought that in good port for Jiffir could bo made a little way to the north, and coubt less the mil way alrendy finished from Jafi to Jerusilem will be followed by others for the strean of travel and of immigration is constantly increasing.
But will not they who love the Palestino of the old Past feel $\pi$ tender regret in ex changing the present modes of thavel for the smoky, noisy iron horse, and the rapil diligence? Doubtless, multitudes of tourists will be glad thus to avoid much delay and fatigue ; but there does exist a type of triaveller who loves to go leisurely, reconstructing mentally that Past, eating and sleeping like the common people. and living is far is possible their life, the life pictured in the Old and New Testaments-a life that as yot remains nearly what it was thousinds of years ago.
This aspect of Palestine life is not for hose who love to go to tirst-class hotels and to have everything on the joumey arrunged by the dragoman, with an amy of baggase mules to convey tents, folding beds, folding-chairs, folding-tables, mattrasses, crockery, dainty food, and all that is necessury to makis them elegantly comfortable.
Whived along by rail, and crowded into diligences. I for one could never have seen me felt Palestine as I did; nover have brought away the delightful pictures of tho daily life of the common people, that non: fill so large a place in my mental gallery.

## WORK AND WAGES.

At the recent meeting of the learned British Assoeiation thero was a discussion of the difference in the waiges of men and women doing the same work. The conclusion seemed to bo that there is no great difference, after all, and therefore not much to discuss.

The same matter is debated now and then in this country. All rightethinking people will agree that a woman is enticled to the pay which in man would re-
ceire firn the sime work, ceive for the sime work, equally well done.
Nevertheless, this does not mem that Alice Jones, who is is clerk in Roupert it Co.'s dry goods store, and who stinds at the comnter beside James Stirk, should hive the sime weeky wiges ashe. It is the universal custom to put more work
ind heavier upon the men, and usually the greater responsibility is laid on them.
Moreover, it is a matter of common experience that men are less frequently compelled by illness to be absent from their work, ind their power of endurince is, in general, srenter:
This is not all, for while it takes one man to marry one woman, the man usually continues at his employment after marriage, while the woman does not. It follows that a man, being. more likely to stay and to learn the ins and outs of trade, is worth more to an enppoyer than a woman who may marry and leave him at any time.
It follows ilso that in any employment where men and women are at work torether, the average experience of the men
the greater.
These facts do not oxcuse unfaimess in giving wages to men and women, but they do explain nway some things that soem minar, and that tum out. not to bo so.Youth's Compraion.

## A YEAR'S IXXPERIMENTS.

It may not be generally known that Dr. Benjamin Richardson was a drinker when the London physicians issigned to him the on living tissues experiments, and came outatotal abstainer his science had controlled his conscience his science had contro
and controlled his life.


## OUR SMALLEST SERVANTS.

We are so much accustomed to regrind bacteria as the most dangerous fries of humanity that tho attempt to demonstrate Gheir utility and essential importanco maty seem almost paradoxical. Novertholess, it would be as unjust to condemm the whole class for tho discases engendered by a few
as to condemn humity for the offences of its criminals.
As a matter of fact, the services of bacteria in the matural economy of the enrth are so important that disense gorms may fairly bo regarded as isolatod, scittered bands. The elimimaion of the bacteria from the earth would be immediately followod by our downfall. Refuso would accumulate in piles mombains high, while the phants which depead upon it for tho greater portion of their sustemence would perish in sight of plenty, from the want of microbes to couvert it into assinilable food. Every trace of organic matter is greedily seized on by the microbes, which convert it into phant food, or decompose it into its original cloments, and thus render the
earth continuously habitablo for man and earth continuously habitablo for man and
beast. These bacteria are so small that a million of them may constitute a mass hardly risiblo to the naked eyo; nevertheless, such is thoir capacity for increase. under favorable conditions, that the progeny of a single bneterimm, if it could multiply muchecked for fifteen days, would constituto a mass exceeding the cubie contents
of the ocom, Their incrense is arrested of the oconn. Their increase is arrested
only by fuilure of food supply; they are consequently al ways in sufficient numbers for the conversion of all tho dond organic matter of the carth into food substanco for living phants. The manure which the farmer spreads on his fields contains billions of theso industrious laborers, all aetively ongaged in con verting the orginic elements inorganic substances (lime, potash, phos phates, etc.) assimilable. The most im-
portant soil constituents for the farmers are the nitrogenous compounds, the presence of which in manuro constitute its prime value as a fertilizer. Plants camot take nitrogen from the nir- -they must take it up by their roots from the sail. But nitrogen is not a proper constituent of soils. In a state of mature the soil gets a supply from the substance of the plants and minals that dic on its surface, but
srain cropss soon exhust this natural supsrain crops soon exhust this natumal sup-
ply, mithe fortility of tho som can only ply, min the fortility of tho soil can only
be mantaned by the nedition of nitrogenbe mantained by the nddition of nitrogenous substunce, which the bacteria, in pur-
uit of their own well-beins, convert into suit of their own well-
But experience hits tought the furmer that while grain and rootcrops exhaust the soil of its nitrogen, beans, peas, amd other legminous plants, so far from exhinusting, aid to its supply, thas rendering possible a high cultivation, by rotation of crops, with considerable conony of manure. But thess leguminous plants are more capablo than others of drawing their nitrogenous supply from the atmosphere; modern investigation has demonstruted that it is the work of bacterin which finds sustenance and habitation in the roots of the leguminous planta, where they multiply from generation to generation, repaying the serviee by dying there and sacrifining to the plant all tho nitrogen they have taken from the ntmosphere, in assimilible form. The hittle swellingson the roots which constitute at onee their dwelling phee, laboratory, and tomb, may be readily recognized on removing in aencia, or mimosa, or other leguminous plant from the pot in which it is grown.
Not less bencficial are the bneteria as puritiers of water. If a vessel of water containing animal or vegetable refuse is allowed to stand in the open air, the fluid gradunly clears until overy particle of bacteria cease their activity and sink to the
bottom. The samo thing occurs on the great scale in nature; the Scine, which at Paris receives an enormous amomit ot refuse, is clenr nad pura at seventy Kilomotres down stream. Tho bacteria haveconsumed the refuse. The Elbe, the receptacle of the refuse from so many cities, is deinkable at Hanburg from the siute cause.
Tho lichens and alge, insignificant and lowly as they seem, phay a very important rolo in the economy of nature. They sink into insignifiance whon the conditions are favomble to the support of highor vegetation, but the task is theirs to crente the conditions necessary to the growth of higher plants. Ascend the mountrins, or penotrato into high latitudes to the brime daries of oternal snow, and every rock is found covered with lichens, the sumport of tho reindeer, and commonly, but improperly called reindeer moss. With its slenpery calledreindeermoss. der finments it mines a foothold for itself in the solid rook ; the carbonic acid which it secretes, beiner dissolved in water, sets free the silicic acid, and in this way decomposes granite, sneiss, micnceous shale, etc. - Edunt' Strashavgor, in Deuishle Rund? schutu, Berlis.

BE COURTEOUS, BOYS.
"I trent him as well ns he treats me," sad Ent.
His mother hud just repronched him becanse he did not attempt to amuse or en tertain a boy friend who had gone home. I often go in there, and hedoesn't no tice me," said finl agran.

Do you enjoy that?
"Oh, I don't mind! I don't stay long."

- I should call myself a very selfish person if friends came to seo me and I shond pay no attention to them."

Well, that's different; you're grown up.'

Then you really think that politeness and courtesy are not needed anong boys !" Eal, thus pressed, stid ho didn't exactly mean that; but his father, who had listened, now spoke:
"A boy or in man who measures his trentment of others by their treatment of him, has no chancter of his own. Ho will never be kind, or generous, or Chistian. If he is ever to be a gentienam, ho will be he is to be noble, no other boy's mermmess will change his nature." And very earnestly the father added: "Remember this, my boy, you lower your amn self every time you are guilty of an unworthy action
because some ono else is. Be truo to your because some ono else is. Be true to your
best self, mad no boy can dmg you down." -Unidentified.

PBRFECT THROUGH SUFEERING.
Frank Carr was a young clergynan. Ho was well cducated, sincere, and anxious to do his duty. Ho called regularly upon the members of his congregrtion; he studied hard, and gave much thought and time to the composition of his sermons.
At the end of two yeurs, however, he felt that neither his visits nor his sermous had brought him closer to his people. His own life had been prosperous and hapy, and when denth or trouble enme to $a$ house and he tried to give eonsolation, he felt awkward and out of pace. Jis flock admired his sermons, and boasted of them is fine literary effores, but he did not know hant any word which ho had spoken had really touched or olevated a human soul. He was youns ; his life was full and com-
wleto ; ho had a wifo and child whom ho loved, a hapy home and hosts of friends. Suddenly, as lightning out of a clear sky, blow full upon him. His child, it hoy wo years old, sickened and died in a few hours. Tho young minister was stumned. His gricf seenied to him so great that nono had ever before been like it in the woxd. Tnderneath this grief was a sullen rmazement, a feeling almost of mge agrinst God. As be stood over the little grive he cried out, "hy - why has he done this thing?
The boy was innocont. He would have been a useful and good man. Wo were so happy in our home with him, and it was $a$
pre, noblo happiness. Now tho child lies pure, noblo happiness. Now tho child lies
there dend, and we are wretched. Why is there
this?
As time passed he grew stronger, and Was able onco more to preach to his tock. But it seemed as if he spoke with a new
down into tho depths, and there had stood face to face with God. In the darkness of
his great grief he had groped for the hand of his Eleavenly Father, and had found it. Eis words moved the people with a great power. No man heardhim spenh that day who did not feel that ho had helped his soul. A year later Mr. Carr left the village, nod did not retum to it until ho was griy haired old man. In the meantine to lat become one of the most halpful ministers who cver worked mong the joon and criminal classes. "Ho does not stand upon a haight aud leeture as," baid a con-
vict in at urison which he visited. "Fie leads us to God. Ifo, too, has sufferedand been tempted."
When he came back and stood again over he Hrive of his first-bown sun, for whom he hud never censed to moum, ho knew what had softened his nature and brought him clase to his fellows. "I know now why the grief come to me," he snid, as he tumed aviay.
However young wo may be, into every life cones some time the question: "Why has Cud sent me this pain?" Barlier or hater we rend the answer in our own liyes or tho lives of those whom we have influenced, for ill or for good. We havo been his tool or weapon, and have been seasoned in the fire for use.- Yonth's Compention.

## A TRUE STORY.

One of our missionaries in Japan sends one following interesting story
Some time ago in gentleman jlaced his drughter in one of our mission schools for girls. She became a Cinistian. Again and acgnin she asked her parents' consent to her buptism, but the auswer was always the sime, she must not be a Claristian. The Emperor was still all adherent of the old religions, and until he changed his roligion was disloyal for any one else to change. Not may months ngo sle was taken rom our school and placed in ono where he opposition to Chuistimity is strong, indoed is part $^{\text {an }}$ of the policy of the schono.
She left our schoul with a heavy but rosolute hame. Other Christim gitls had entered that school, and had been ashamed of their Lurd and had grown cold in their ove and faith. Sho must do better than they. She must not only preserve hey own spiritual life, but live so that those weak ones might be stremethened, wad perhaps some others led to Chmist. Extracts from some of her letters will show how she is succeeding. She says: "They (the nonChristim students of the school) asked me may questions, and at last they asked me about the religins meetings in the mission school. I told thom about the prayermecting, the Wednesdry meeting and the lass meeting. They listened very seriously, but paid particular attention fo what said ubout the class meeting. I told them e were keoping it Bible motto every week, and they said that was very grood. To-day when I went to school they asked me what our motto is for this week. I told them Love seeketh not her own.' Ono of them caid she would try to heep it this week." In mother letter she says: "One more min is heeping the motto. They toll me that several times it had helped them to be unselfish. They also told me that they had rad a Bible yesterday in a sman room where no one cuuld come." One week the motto was, "Lovo thinketh no evil." They sidid it was too difticult to keep, but she suggested that they should mike it speaketh no evil."
Week nfter week they ask for the new motto, and thus among a class of people, perkiqs the most difficult to reach in $\mathrm{J}_{\mathrm{n}}$ pin, week by week the seed of Bible words is being sown by a chill-she is only sistech. What will the harvest be? Bosides this, two of those Christians who hand grown cold and almost lifeless, have been revived by her words and example into new stness.
In another letter she says: "I often feel very lonely, but Christ and the Bible are my two frionds, I tell him every little worry and he has helped me many times." Truly out of the mouths of babes he has perfected praise.-Chnistion Guardian.

Tubre abe Many we cannot reach with our gifts, perhaps not with our counsels: prayers may

salay, the chimpanze at the zoological gahinens.
THE CHIMPANZED AT. TFIR ZO-| to hor that for many months Sally was OLOGICAL GARDENS.
It is cloubtful whether any of the animals exhibited from time to time in our zoological collections are viewed with as mueh interest as those that constitute the nemrest
of our poor relations, the inthropoid or of our poor relations, the anthropoid or
humanike apes, of which threo distinct hammilike apes, of which three distinct
groups are hown-the ourang-outuns from groups are known-the ourang-outans from
Borneo, the gibbons from tropical Asia, and the gorillas and the chimpanzees from Western Africa. These arc the most highly developed of all tho animal crention, and approach the marest to man. Unfor-
tunately, theyaro all short-lived in our temtunately, they aro all short-lived in our temperate climate, seldon living a suflicient
time for their habits and instincts to bo time for their habits and instincts to bo
accurately studied. Ono remarkable excepaccurately studied. One remarkable excep
tion, however, has been long fimiliar to tion, however, has been long famiar to
the London public. Sally, the bald-hended chimpanzee, that was recently living in the Zoologicul Gardens, was a well-known figure in Loudonlife. When Sally arrived it the garclens, in October 1883, she was quite an infant, not having shod hor first quite an minat, not having shed har first
teeth; probably sho might have been between two and threo yenrs old. As snon tween two and three yenrs old. As snon
as she arrived, it was seen that she differod as she arrived,
from tha ordinary seen thimpanees, of which, from the ordimary chimpanzees, of which,
since their commencement, more than thinty specinous have been exhibited in the gardens, all of which, unfortunately, were
short-lived. The most important differ-short-lived. The most important difier-
ences between Sally and her predecessors were that her face was almost blick in color, that her head was destitute of hair, whereas in the ordinary climpmazeo the hair divides on the top of the head, falling to each side in tolemble abundance, and, again, her ears were yery much larger.
Ifence Silly was regarded as the type of is
and new species, differing from the oll one, and was cilled the bald chimpanzee, oi, in scientific hanguage, An/hropopithoths calwis. No sooner was this young creature located in the gardens than she showed n disposition to wero upon animal food. It it sumal bilroitly welth it as it-flew paist her, bite
not andritiy catch it as it-llew past her, bite
off the head nond eat it, skin and fonthers of the head and ent it, skim ind ionthars
included. This foud seemed so natuyal
supplied with a young pigeon, which she supplied with a young pirgeon, which she
killed and ate every night. After a time she became more civilized, when cooked mutton and beef-tea were substituted for this part of her dietary. The location of CheZanlogical Gardens close to the Regent's inconvenience. The rats from the cimnal camnot bo kept out. Thoy aro presont in every part of the gardens to which they can get access, in spite of the numbers
that have beon constintly destroyed. T? that have bean constiantly destroyed. To
Sally, however, they were by no meins an Sally, however, they were by no means an
inconvenience. If a rat entered her cage at night it was invariably caught and lilled by her. Int these resplects Sally differed very much from the ordinary chim. panzee, which Mr. Barlett informs us ho and he ker known to cat any kind of flesh, mens under his care during the many years thit ho has been sujerintendent of tho gardens. Theso wero inot the only distinctions that characterized Sillly. She was undoubtedly far more intelligent thin any of tho larger apes that have ever before been kept in confunment. Sho was affectionate, hardly ever tired of romping and phyying with her keeper, generally in in
very good temper, athough shc occasionally Yery good temper, at though shc occasionally
behaved like a spociled child. Silly was belaved like a sploiled chilk. Sally was
capable of being tiatht many things that capable of being tianght many things that
showed considerable thought and a great amount of intelligenco. Sliealways obcyed her liecper, and was trained to such an extent that she conld evencount to a considerable number. The keeprer had taught her to givo the exact number of striws arrange in a little bundle, and hand to lim, whether she was told to select three, four: five, six, or seven; it was even said that she could go on to it greater number. She nwiys recugnized those who mado her ace quinced ence, and paid marked attertion and ost in colored people, whom she would receive with a loud cry, which sounded much ike tho syllables "Bon, bun, bum." included. This food secmed so natueal The chimpanzeo may bo regarded as the
animal which approaches most nenily to man. Although smaller than tho fullgrown gorilla, there is mot the great disparity in the size or structure of the two soxes that thero is in that animal. When the chimpanzee stands upright the arms the chimpanzee standas upright the anees,
reach only a short distance below the kit being in this respect more humanlike than any other ape. The face is furnished with distinct whiskers, cyebrows, and eyclashes. The forehond is more vanlted, and the brain, ns might be expected from the intelligence of the animal, barger than inany other ape. The tusks are much smaller, and the whole of the teeth make a close ap proximation to those of the human species. The comparatively long life which Sally had passed in conlinement is doubtless due to the conditions under which she was placed. Instend of being put in the crowded monkcy-house, she hatd a large room very much to herself, where the air was comparatively pure, and sho wais not irritated by the presence of other amimals of the same ind fer denh was dae to dic of that ono which is genemully, but die of that one which is genemiliy, but
erroneously, supposed to cause the death of the majonity of monkeys-mamely, consumption.
As, perhaps, the nearest npproach to humanity that has ever becn seen or
studied in an adult state in this country studied in an adult state in this country, Sally cxcited very great and generil interest. Her portrait was repeatedly pub lished, photogriphs of her were constantly taken, cxicriments as to her intelligence were mado by scientific investigators, and she was taught to perform actions, to obey
orders, as we have said before to count striws, by her liceper at the suggestion of those who endeavored to investigite her mental concition
The death of Sally is a grent loss to the grardens, and is one not likely to bo supplied. No instances whatever are known of iny of the larger apes attaining any age approachuys to that which sho hat reached.
The extruordinary human expression of The extriordinary human expression of her face was partly disguised by the chor-
mous size of her cars. If, however, one mous size of her cars. If, however, one
of her portraits were taken, and $a$ picee of of her portriits were taken, and ir piece on
paper or muslin, cut into the likeness of a mob-cap, were placed around her face, her resemblance to a human being became ab once wonderfully manifost, and we have secu miny types of hamanity that do net ook as clevated in the seale of creation as the much lamented creature which has now reted Jondon NTazs.

## REASONS FOR NOT GOING TO

 OHURCII.There are excuses and excuses, and explanations and explanations, and reasons and reasons for not attending chmel, is few of which Burdette
So you no not going to church this morning, my son?
Ah, yes ; I sec. "The music is not grod,';" that's a pity : that's what you go to church for, to hear the music.' Andel the less we pay the better music we domand.
"And the pews are not comfortable;" that's too bacl-the Sabbath is a day of rest, and we go to churcla for repose. The less work we do during the week, the more rest we clamor for on Sundry.

The church is so far away; it is too far to walk, and you detest riding in a streetcar, and they'ro always crowled on Sundiy." Thit is indeed, distressing : sometimes, when I think how much farther away heaven is than the church, and that there aro no conveyances on the road of why de seription, I wonder how somo of us are going to get thero.

And the sermon is so long, alyays. All those things are indeed to be regrictted. I would regret them more sincerely, my boy, did I not know that you will often squecze into a stuffod strectectr with a hamdred other men, breathing an incense of whiskey, beer and tobacen, and liang on strip by your eyclids for two milos, then pay fifty cents for the privilcge of sitting on a rough plank in the broiling sun far tro hours longer, while in the intervals of the thunder out of a dozen misfit horins rich in row very eurs and camo home to tuls tho rest of the family into a state of aural paralysis about the "dandiest grime you
ever sizy played on that ground."

Ah, my boy, you seo what staying why from chureh does? It develops hundred who could go on the witness stand and give, under onth tho samo pensong for not going to church that ho gives to his f:unily cevery Sundity morning. My son, if you didn't think you ought to go, rou wouldn't make any excuses for not going. No man apologizes for doing right.

## SOME WONDERTUL THINGS.

"Martin,", said a wise grammer-school boy to his little brother of six, "come here and tell me what you have inside of yon."

Nothing," said Martin.
Yes, you have. Listen ; You've got a whole telegringh stowed away in your body with wires running down to your very toes and out to your finger-tips."
"I haven't," said Martin, looking at his feet and hands.
'You have, though ; and that isn't abl. There's a big force-pump in the middle of you, pumping, pumping seventy times a
minute all day lons. like the great cngino I showed you the other day at the locomo tive works.

There is no such thing"

- But there is, though; and besides all these things, is tree is srowing in you with over two handren different branches, tied together with
"That isn't so, at all," persisted the litle boy, about ready to cry. "I can feel myself all over, and there's no tree or en gine, or anything else except flesh and


Oh! that isn't flesh and blood ; that's most of it water. This is what you are made of-a few gallons of water, il littlo lime, phosphorus, sult, and some other hings thrown in," said his brother
Tears stood in Mirtin's eyes, but the rrammar-school boy went on: "And the Wrorst of it is that there's ever so many million little-but where is Mirtin?
Whe poon jittle fellow had run away. When his brot her found him, he was kncelcrying.
"I was only teasing him, mother, and kind of getting up ny lesson about the body that we're to have this afternom. I didn't think it would worry him so."
The big boy kissed his mother and ran away to school, while the little fellow had talk with mamma about the wonderful things inside of him.-Sante Claus.

## HEAVEN "THROWN IN."

This compromise life is the most unhippy and wretched of all lives. It is not only very certain that he who sits between two stools falls to the ground, but that during the short and unhappy time that he manares to mantain his balance, he is in a miserable state of suspense and uncertanty. For a thoroughly unhappy man commond us to the Christian with the pricking conscience, who is living a half-and-half jife, and who is winng neither to give up the world nor to cast Christ aside wholly. For a thoroughly happy man commend us to him who, though poor and humble and obscure, is willing to follow Chuist wholly. In this connection, a familizr story of Fither Randiul, one of the founders of the Free Baptist denomination, is pertinent. As the old man was aboue to die, sonno of Ins friends gathered about his bedside remarked, "Well, Father Randall, you've lad a hard time here, but you'll have your reward in heaven." This was a theology that tho old vetoran could not countenance even by his silence, and straightening up
on his dying bed, ho cried out, "No, not on his dying bed, he oried out, "No, not
so, not so! I'vo had my reward every diy as I went along, and heaven will be thrown in at the end. It is no otherwise with overy devoted child of God. He will have his reward every day of his faithful life, and heaven will be the additional gift of God's free grace at the end.- Golden Rule.

If You Want to be miserablo, think about yourself-itbout whit you want whit you like, what respect peoplo ought to pay you, and what others think about to pay
yout:

## A CANADIAN HEROINE.

## (Continucel from Mressenger of Jun. s.) It had broken away close at the ba

 the had broken avay slort and bave part of the floor still fastened to the rock. The upper part of the tower being heavy-: owing to the machinery and the heary metalwork of the lantern-When it fell over jnto the sea the top sank perpendiculariy most and water, the base remaininguppermost, and uppermost, and two of the floor beams
lay across it with some of the flooring. As for the brave girl, she never knew how it came to pass, but in some providen-
tial way she floated upward from the lantial way she floated upward from the lan-
tern to the base, and when consciousness tern to the bise, and when consciousness
returned, found herself in the midst of the wild son with a large beam at her elbow. This sho at once seized with both arms, holding firmly and stooping her head when in great wave came breaking over the top there huppenced to be a coil of the tower such as is usually kept in those lighithouses, and when the tower tumbled over this remained upon its hook upon the wall. The girl espied it, and putting a coil of it aroound her wist she fastened it with two halfhitches, and then secured the bight to a
stout broken timber above her. Then she stout broken timber above her. Then she
lay aeross the beam smitten by the cruel lay across the bean smitten by the cruel
billows, praying for the dawn. The constant pounding of the waters upon her body began to stupefy her and mako her insensible to pain. Then sho lity scarcely caring what fato befel her; but through her numb sonses she kew the storm was abatnumb
ing.
Tho
The tower drifted far out into the lake and when the sum rose touching the subsidint waves with yellow gold her father and the ankious folk on the shore satw the the waves. Just as soon as it was smooth the waves. Just as soon as it was smooth
enough they latunched a couple of boats and enough eucy humchad a couple of boats and
went out to tow the wreck to shore, the went out to tow the wreck to shore, the
father brolsen-hearted at what he natumally belicered to bo tho destruction of his diughter ; the fishermen sorrowing over the fate of the brave young girl; but think of their joy ns they neared the wreck to see ner lying fastened to tho timber at the base of the tower, her hair floating in the water and feobly mising her arm as she espied them. They unlashed her: took her into the lonat and rowed swiftly to shore agnin. She could not speak on the way and was partly unconscious, but after a while revived and told them the terrible story of her experience.
Iirhthouse upon the did not build another hirhthouse upon the rock, and it remains to this clay a menace to ships, while Gypsy hited and beloved by everyono for her
mired heroism.
The Dominion Government, in recognition of the brave conduct of the young
giri, settled upon her a pension of $\$ 1,000$ girl, settled upon her a pension of $\$ 1,000$
in year for life.-By Edmoud Collias, in Conada.

## THE MISSIONARY PIG.

"It's all right for Chaphin MeCabo to talk about a million for missions, but that don't make crops any better. He'd turn farms, cows, pigs, and all into the mission-
ary box if he could." MI. Simpson uneasy laugh as ho said this.
" Well, pa, I would have slept bettor if you had pht your name down for something last night. His speech was worth i ing and coming to hearit, and Roy enjoyed the singing so. Tm glat we took him, but I feel as if I had Chinn, India and Alaska all on my heart to-day," and Mrs. Simpson sighod is she began gathering up the dishes.
'Oh, he's all right. The church needs to bo awakened. Wo don't pray enough for the heathen; but a man must look to
his own first. Just fill my pipe, ma, while his own first. Just fill my pipe, ma, while
you're at the cupboard. Have dinner ; I'm working hard seeding alone. Good-bye, Rny." And, lighting his pipe, he slammed the door and was ofl.
Thero was a cloud on Mrs. Simpson's plump, rosy face that morning. Don't not liss her good-bye. Ho had loft off such demonstritions long ago, and if Mrs. Simpson missed the littlo attentions most wives prize, no one was the wiser. She
was looking around the neat also served as dining and sitting room, and thinking of women less forturate in fard. thimking of women less forturate in fare
away-lands. The new mag carpet with its
strip of painted flow around the stove,
the cheap prints on the will, the plants the cheip. prints on the wall, the plant
and cinaries in the windows, all made a pleasant picture. The feeling of possession, thinking of the well-furnished fron tiful hard-enrned acres outside made he feel a very rich woman. When she reflected there werc many near, as well as in foreign lands, who did not enjoy such pleasunt surroundings, her eyes fell on the glimmer of white marble in the little hillside cemetery in the distance. Two litthe mounds wore there which held what was far more precious than all that monoy
could buy; but she knew her lost lambs were folded with the Good Shepherd. is beciuse no hape for the future is so much barder than present poverty, the case of the heathen is so much worso than being poor herc. There is not a mother in this country but has heard of Jesus. Oh, yes, being where there is 110 Josus is tho most terrible thing in tho world," ind as Mrs. Simpson decided this simple truth, slic could hardly keep back the tears. IIci window sat in his low rocker by tho by his side told pile face and the crutches mother found necessary to curry to tho Burden-bearer
"Mia," Roy said, "I'vo been thinking over what he said, too. It kept me awake last night. Fe said it took only forty dollars a your to sond a boy to school in
India, ind after a while that boy might be India, and ifter $n$ while that boy might be
a preacher, and lead hundreds of people to aprencher, and lead hundreds of people to of Dr. Judson I've ached to be a missionary. I think I'd choose India.'
"Dirling, if the Lord wants you to go to India he will cure yous. I wanted to go when I was joung, and I would be proud to give a son to the cause; but my boy will stay at home and take care of ma when she ets old," was the answer:

No. not go to the war," Roy went on. No; ho couldn't leave, but he sent a substitute, so it was just the same.
'Don't you suppose Jesus meant if I did not go, I ought to send a substitute, ma?" Roy asked, with enger, shining eyes.
his ' go ye into all the world' means any.
ody, why doesn't it mean Roy Simpson?",
I never thought ercry ono must fro on send, though I don't soe why it should not
be as binding as serving one's country. If be as binding as serving one's country. If substitute, of course the world would soon bo brought to Christ. But it's 10 use ; pa never will give but a dollar a year for missions. Don't worry, dear! l'm going to me, after you stem some wisins.;
"I ought to send a substitute," insisted Poy, looking at his name foot.
"Hero's something for you, Mattic," said Mr. Simpson, as he came in at noon. "A hog killed its mother and the rest of the litter. It's no use to mise pigs now. If they don't die one way, they dio another. I thought dimner was ready." This As he spoke he unrolled an old grain-bag and disclosed a very small specimen of a pig.

I'vo no timo to fool with a pig, warning its milk and having it aromad. You plied Mrs. Simpson, who had worricel over phed nirs. simpson, who had worried over Mr. Simpson saw he had blundered, but not being just clear where, turned to Roy
with lis burden with his burden.

O pn, give it to me !" begged Roy.
I dont care, if manll have it aroun Do you want it for a playmite?" was the answer.
"Do I want to raiso it? May I have every cent it brings ?" said Roy, engenly; "Yes, and corn to fatten it for market," said his father, with a laugh to see business interest in his bookworm of a boy.
Mrs. Simpson, relenting her hasty speceh, consented at once, and so this particulitr pir boc
Never dida pig have a daintier bibyhood. Roy fixed up a box for its bed in the shed, the table on wam mink and seraps from the table, for ho said this pig wiss too im-
portant to be a dishwater pis. It soon beportant to be a dishwater pise. It soon became as pretty as a pig could be from its
fumny pink nose to its little cund of thil funny pink nose to its little curl of a tril.
It became quite a pet, and would eat out It becanc quite a pot, and would eat out
of his hind or follow him around like a dog.

But it rried its little red nose on Mrs Simpson's pansy bed, so its liberty was at an end. Roy declured it should not asso ciate with the vulgar herd that wallowed in the mire behind the barn, so "Sub," as she was called, had a comer of the gilr din penned of hor her plityground, and a
little shed for her shelter. Mr. Simpson tried in vain to guess the menning of her stringe nime, though Mrs. Simpson was stiringe nime, though his. Simpson was
evidently in the secret. Roy found out evidently in the sccret. Roy
enough of hogrology to inform his father that pigs were a much slandered race, for they roll in water and damp places to cool themselves and get ridd of vermin, and prefer clean places to slecpin. Mr. Simpson laughed at it all, but adinitted Roy's pig Was thriving much better than his, and was out of doors awry from books.
One cold November day the time came for Roy to piart with his pet. Ho shed tears and even kissed its fat nose when ho fused his father's advice to keep her.

No, pa, sho's my missionary pig, and her real mame is substine. I want to send in substitute to India cause I'm lamo,
and can't go. Get all yon can for her," was the boy's answer at list.
Then Roy's devotion to this pig was explained to Mr. Simpson, and he went ofi in a very thoughtful frame of mind. When ho eame back ho gave Roy ten silver dollirs, siying: "Your pig wiss the best of its age in malket, as fat as butier, and solid as lead. You've earned it, so send it spare ouphat to. Why, any farmonsity "O pin, will you let me have one every year?" begrged Noy. "Then by tho time am grown I cin have a substitute in Indii, fust as you had in the war. See pa P'm lano and can't go, and Nellie and Willic are in heaven and can't go, so I must
send a substitute."
Mr. Simpson drew his rough landacross his eyes, ind said: "My son, I nover
thought of that. I paid throe hundred dollar's to send my substitute to the war, when I had to borrow the money and work nights to pay the interest. $I$ never Lord's battles. Till maclp. to fight the you tak an missionary piry every year, mind "Oh, I can easily spare that much out of tho butter and eggs, if you aro willing. "Well that impson, eigerly.
aise, and I don't put much by for me to day, as it is. I'm light my pipo and think it over." Ho sit down by tho stove a moment; then roso suddenly, lifted tho
lid and omptied tho lid and emptied the pipo into the fire. ma do all the giving. I'll give up my tobaceo; that will mako tho other twenty. I didn't know I was sending my substituto up in smoke. Here, Mattic, sild this pipe and tio a pretty ribbon on it, and hang it obligations when I focl the old hunkering coming back. When wo get Roy's substitute in the field, I might send ono for John Simpson."
When ho had finished speaking lis wife handed him the Bible for cevening worship, believing heart that the kingdom of God might spread in every land.
Now a pipe hangs over the old Bible, and by it is it decorated cigar-box, with an ojening on top. Every time Mr. Simpson goes to the store he puts in what he usually
had spent for tobnco. Wvery Siturchy Mrs. Simpson counts out of the butter moncy her part of the "substitute" money with it hapyy heart. Occisiomully Roy earns a fow pennies, which go in to keep his ten silver dollius company, so by the Indi annuw missionary meeting a boy in tell of all the good that will como from one Plan missionary pig !-Mypra Goodzoin Plantz, in North-vesterv Christian Adeveate.

## NEW CLUB RATES.

The following are the Ner Ciun Ratis for


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## NOTES AND NOTICES.

Bound to Have rx.-I must and I will have it, exclaimed the little man aucl he lave it, exclaimed the little man ancd he
dished the proper to the floor, jumper from dashed the piper to the floor, jumped from
lis chair and brought his clinched hand his chair and brought his clinched hand
down on the table vigorously ; then, mopdown on the table vigoronsly ; then, mop-
ping his brow and adjusting his glasses, he ping his brow and adjusting his glasses, he
seated himself, seized his pen and in a nervous, cxcitable hand wrote: D. M. Ferry \& Co., Seedsmen, Windsor, Ont., Clentlemen: Referring to your advertisement in the National Intelligencer; I notico that you saty that your Sced Ammal for 1892 is free to all applicants. As I buy considerable quantities of vegetable and flower seeds cach spring. I would esteom it a fivor if you would mail me your Cataloguo. My neighbors say it is the best

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