##  4 5 Ons

 It Is nodatne Frumt rrees. bum or thard trees at a time when cleft grart.tha can not be done. The work can be done In thate Aunust, September and trwes is very much the same as that of matiting The apple, plum and rose
Coxil turticularly, may be operated up on to ndvantage and with good results The work of budding can be done by
slarp, rowadpolited knife and
and follow by selecting a place where the
 eantuly, With the rounded part of Just throught the lark, a silt about $11 / 2$
lonties tong. nid at the top of this Incties long, and at the top of this
siti cut arroses abont $1 / 2$ Inch, as shown of the same season's growth of the de
sred variety one of the strong, health

 atove the bud, as at b. Cut deen
enough tato the wood so as not to in chough thato the wood so as not to to
fure the bual , nud cut it so ns not Then place the bud, c , on the end of
the kinte and pusts down lito the sitt
nis nbove deseribed iss nimove described. Push securely telow the upper cut. Then wrap care three weeks exantine and see if the bu Lus, wrown fast nid so that the yarn og grow the following spring.
en the stock Is growing vilion wheth
thether the buid
or that

 worne by the tree from which the buir
was taken. -W. H. Wudervoont Farm and Home.

Proteot the Miras.
The armer is \#lable to thrd friends. Is is wish to to tell some tis this spring, in regard to our quantis When our nssessor came around kestic fowls for taxan, astion, ns 1 knew thout how many we had on our far that you conid not tell how many
birds yon have, because they will be nelghbor's he next. Whille that true, do not our domestle fowis
orer on our nelghtior's phace, also
lem ${ }^{12}$ yon give them opportuilty to ${ }^{\text {son }}$ which most people do that know of. But do they not come back
home every eveuting to roost?
It
it roost on the farm where he was brea and hatched, providing he is unmolest. ed by hunters, hawks, ete. If you
were to chase your donestle fowis as you do the poor itttie quall, in the fall of the year, do you think thut there would be many chickens on the roost In your chlcken house at night?
The writer has known coreys that nter beling chased and stoot nt nul at dusk, and after gettling back to Eether would ny to roost. think tuit anything that is n You through
yuch
sircumstancen and of our farmers are dollog.-J. H. T., the Indiana Farmer.

The Mnek Raspherry.
black ruspberyy has ts pec tles, and among them ts that of the nniuni travel to new soll by means
the tipe stocks from the till are com paratively worthless for new plantations: anit growers of valuable varieties must ottaln thelr plants from the thps part of July, it it hisis not been attend ed to mooner, when the growing canee have reached the belght of 4 feet, ntp

way that they may be easily removed or cleaning and disinfection. The dia-
gram illustrates how they may be ar ranged with advantage in any house The roosts should rest in sockets, and he drop boards should not be nalled
in place, but slimply rest on the cleats t the ends.

Value of Humas.
That solls need humus is shown by the recent test at the West Virginfin
tation. The ash of stabie manus ven when applied with sodlum nitrate add not show as large returns as when
stable mannure alone was applled. In table mannure alone was applled. In
number of cases it is decaying hu nus and not latent plant food ele
ments that the farmer's soll needs. Se that the soll is rich in organle matter Irst, then if it falls to produce, apply
the plant food elements in the prepared torms.
fing
fin

## Minnesota farmers have tound <br> MInnesota farmers have found

 clover, 3 pounds of Keutuckky blue grassand 1 pound of red-top seed per acre to be an excellent mixture for pas wet, the red-top will take the place the timothy.


THE CALORIMETER CHAMBER.
Some time ago Dr. Andrew Wisen discussed the calorimetric experiment at an American unlversity. Sheftield Uulversity has now installed a similar
chamber, in which a man is shut up in order that the beat his body may be observed. By a system of registering instruments the heat generated by the body lir actlon and in repose is minutely recorded. The
prisoner has to live for several days in a calorimoter to him through a porthole so contrived that the beat and his food is passed be affected by the opening of commumication with the outside world cannot exercise he rides a stationary blycle, and during the time he is on the ma-
chine a record is taken of the clange in the temperature of the body.chine a record is taken of
Illustrated London News.

At Fuerth, which is close to Nuremberg,
a flourishing trade and Industry has Aikewise sprung up since about the en of the elghteenth century. Next to Nu-
remberg and Fuerth the town and di trict of Sonneberg has for many years ndustry and trade, while in the Saxon
Ind "Erzgeblirge," a distrlet comparatively poor in natural products, the manufac-
ture of toys has likewise for some tlime ture of toys has likewise for some time
furnished a source of uvellhood to housands of its Inhabitants.
The toys mode at Nuremberg and
Fuerth are chlefly of the metal variety. made either of tin, timned sheet fro or of tin and lend alloyss of the more
than 200 toy factories established in han 200 toy factorles established in
both of these towns, about 150 are devoted exclusively to metal toys, the only part of them worked by hand be ing the final painting, while all the re
manufactured by machinery, In thit respect this toy industry of the two
Bavarlan towns occuples a rather dif crent position from that of all the ther parts of Germany, where it is a
most exclusively carried on by manua labor; that is to say, by workmen and Women in thelr own homes. The suc-
cess of the Nuremberg and Fuerth metcess of the nuremberg and Fuerth met-
al toy manufactories is maluly a attribulable to the skiliful manner in whic In which the machineery and tools used for the work have been adapted and
gradually fmproved by the toy manugradually fmproved by the toy manu-
facturers themselves, thus enabling
them to them to produce large quantities of
articles within a comparatively short
$\left\lvert\, \begin{aligned} & \text { horse in 'one of the many "boarding } \\ & \text { stables" In the ctiy telephoned the other }\end{aligned}\right.$ stables" In the clty telephoned the other
day to nonght to the house.
"Is thed the telephone. "Is this So \& So's stable?" queried
"Yes," came the answer.
"Well, who te thls?"
"Aw, 'taln't nobuddy. Wait a min-
it and I'll call somebody," came the

> A Judeloum start.
"I suppose you are ready to contend
hat your family dates back to before "No, I'm not. That gang was so pople were satisfied to start in our an to settled down and cevilization be
"There is sympathetic. onsiderate and tender-hearted."
"What's the trounde "3Iy daughter refuses to arinking water for fear of hurting the The shortest.
"What's the shortest. day in the
"ear?" "I don't know what it is by the caltal account."-Cleveland Plain Dealer. You people who quarrel easily, re-
nember that no quarrel was ever real.
made un

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"So you were successful in your first case, doctor $\%$ "Er-yes, yes: the-er
widow pald the bill."-The Tatier. Church-Did you ever work for hroad company? Gotham-Well, yes I've tried to open the car windows.
Yonkers Statesman. Little wife-Granddad, what makes engagement ring? Grandfather-The man.-Philadelphia Enquirer. Wife-I've invited one of my old
beaux to dinner. Do you mind? Husbeaux to dinner. Do you mind? Hus-
band-Mind! Heavens, no! I always love to
Life.

Family Doctor-And how old are you
now, Robble? Robble- $\mathrm{I}^{\prime} \mathrm{m}$ not old at at now, Robble? Robble- I'm not old at
all, doctor. No man is old untll his ail, doctor. No man is old until his
teeth are all gone, and here I'm getting Auntie-Poor Rob: Does your tooth nche yet? If 'twere mine, dear, rd
have it out at once and be done with
it. Robbie-If 'twere yours! Well, It. Robbie-If 'twere yours! Well,
auntle, so would I. "What would you do, dear, If I wero I don't know," replied Darley thought-
fully. "Which is your cholce-burial or cremation?"-Tit-Bits.
"Pop! What Is a pantomime?" "A pantomime is a piece in which no one
speaks." "I shouldn't think a plece speaks." "I shouln't think a pecee
with no women in it would be interest"Do you want employment?" "Lady,"
answered Plodiding Pete, "you means well, but you can't make work sound
any more fuvitin' by usin' words of
竍 First Deacon-Our new pastor must be a vegetarian. Second Deacon-Why
do you think so? First Deacon-There
doesn't seem to be any meat In tils serdoesn't seem to be nay meat in hls ser-
mons.--Pblladelphia Public Ledger. Elsa-The paper says that the bride
was unattended. Stella-That notice was written up in advance of the wed-
ding, but it was a good guess; the bridegroom falled to show up.-Puck.
Mrs. Hix-I don't take any stock in Mrs. Hix-I don't take any stock in
these falth cures brought about by the laying on of hands. Mrs. Dix-Well,
I do I I cured my little boy of the clgar-
ette thabt that way,- Now York Globe. "You call this a summer resort, I
belleve," sald the sarcastle visitor. " am unaware of any place to which summer resorts more regularly," returned
the Philladelphlan stifly.-Philadelphia Bulletin.
"But," protested the wayward soh,
"you slould make anlowance for the
follies of youthe" "llot follles of youth." "Huh!" growled the old man. "If it wasn't for the nllow-"
ance you get there would be less folly." Hram-Who is thit little runt that kem up In a buggy wagon to see Miss
Flip, the new boarder? Sllas-He's Flip, the new boarder? Sllas-He's
what them clty folks calls her "finseo" what them elty folks calls her "fiasco,"
Hiram-Her flasco-oh, you'mean her Hiram-Her flasco-oh, ou
financee.- Boston Transcript.
egates. "Gentiemen,", protested the delslding officer, "I can assure you that
the disappointment of these who the disappointment of those who can't
hear Isn't a marker to the disappoint ment of those who cam."-Philadelphta Public Ledge
Mamma-Robbie, have you earacht,
dear? Robble-No, mamma. Mamma Then why do you put cotton in it? learn so little, cause what goes in one
ear goes out the other, and so ear goes out the othe
plugged the other up.
"Did you write to papa, George?
"Asking for your hand?" "Of course,"
"Yes I Yes, I wrote." "That's strange. I sup-
posed papa would be terribly posed papa would be terribly angry
You know he doesn't He you." "Yes I know. But 1 fixed it all right. I-I
didn't sign the letter."-Cleveland Plain Dealer.
Publican-And how do you like being
married, John? Jolin-Don't like it married. John? John-Don't tike it at
all. Publican-Why, what's the matter
wis wi' she, John? John-Well, first thing In the morning it's money, when I gooes
'ome to my dinner It's money and at supper it's the same thing. Noth-
agatn,
ang Ing but money, money, money! Publlwi all that money? John-I dumno. I
aln't given her any yet. aln't given her any yet.

They had just been Introduced "Really." she suald, timidly. "Your
tace seems so fumiliar to me face seems so familiar to me I think
we must have met before." "Impossible," he slghed. "It we had ever neet before I should elther be en-
gaged to you, married to you or dead gaged to you, married fo you or dead
if a broken heart ere this," No wonder she asked htm If he for a whille!
The women should always admire
women more than the men

