THE NUT-SHELL, MAY, 1890.
a jointed fiebing rol, and supposing the
eane, or a leught of the rui, is just enne, or at length of the rui, is just ly, and if the sun shiues, it will enat a shadow ; now with a poeket-rule, you measure the length of the shailow, and find it, may two feet. Here then we have a right angle of two feet and three feet. Now messure from the base of the tree to the end of its nhadow, and we will suppone it to he twenty feet. The problem, therefore, is simply his: if a eane three feet high munt a tree be to cast a shodow of twgh ty feet? Or, in wher wort if twi. gives three, how much will twenty give? By the s.mple " rule of three " we find the answer to the thirty feet: Thus, by similar triangles, we have
2:3: $20 . \mathrm{X}$. $\mathrm{X}-30$ feet - the trees $2: 3: 20$.
height.
Tuere is another method which has Uhe advantaze of being still more simple and convenient, by which the ined loy its shadow Any persen may eadily menvure the exnet height of a tree whin the sun shines, or during hright moonlight, hy mak. ng two linee on the ground, three feet apart, and then placing in the ground, on the line nearent the sun, a stick, that shall stand exactly three feet out of the soil. When the eud of the shadow of the stick exactiy tonches the farthest
line, then al-o the shailow of the tree will le exactly in length the same measuremeat as its height. Of course, in such a case, the sun will be at an ex. act nugle of 45 , or just midway below the zenith and the hurizon
Bat the realer may now ank: Sup pose the sun doesn't thine what then! Why then sec up the eane na before, say eighteen feet from the base of the
tree. Now place your heas on tree. Now place your hend on the
ground, with the eane between you ground, with the eane between you uni from it until you can just see the top of the tree over the top of the cane, then piace $a$ pebble or malk on the ground at the point where you obrain this view. The eane being three feet high. the distance frum the pebhle to it will be two feet, and from the pebble to the hase of the tree, twenty feet, hence hy the same rule, we find the explainnd aloove. expminedlowing methol, with a little
The following mether practice, w:11 enable any person to objects with approximate oreuracy when the sun is uot shining, and the methoil here given represents the nimpleat and quickest way to measure heights, though the results are not ab Fintely correct.
First make a maric on the tree or other object, say six feet from the sgainst it. Then walk away to gurha distance that thy breadth of the hand held out at full arm's length, will juat cover the nix fret. Mark with the eye a point on the tree at the upper end of the six feel, and mive the hand up*arts and another hreadth, and thun
piocee.l until the whole he ght is meayprocee. until the whole heghts is meas-
ured. It may sometimea be convenient for an it may sometimes be convenient or an assistant to stand at the foot of be six feet high, whe mayserve na will ure to hegin with instend of the rod it is well to stainl at some distance from the tree in making these mensurements or otherw: ass the upper measured portions will be larger than the liwer on acsount of the "longer legs" of the imaginary trinngle. If the divtance be too great for the breailth of the hand, one or two fingers only may le used, or a ahort pocket rule. Or if the pueket iato inchea may be made to iudicate the portions messured, and the whole completed at one measurement
The heights of perpendicular banks of inkes or other pree picen, or the deceat of $n$ wnterinll, have been singularly matijudged for the want of nome dea meand of iafanurement an those deseribed ahove If the water of a lake fieeses in winter, the ice forman an excellent hase-line for the mesauremen of nay of its shores or lanks, and the

## COIN SUBSTITLTAS.

Norway even now unes eorn for coin. The skina of asimals were the earli In finn of money In In lia calken of tea pasane curreaey. and in China pieces of ailk.

Sheep and oxen among the old Romans took the place of money. mong the Zulus sni Kaftirg medium Tin todey forma kaina.
value at the great faire standard bf value at the great fair at Ninhni Nov In the retired distriets of Ne Guinen female alaves form the atan dard of value.
Among nome of the native Austra lians areenstone (jumie) and red ochre To m the curreney of South Ameriea for curreney, as ar Iron tand and eggo
Iron apikex, six heing a drachm or Parta of Crestill employed in certain Parts of Central Afries.


## The Ottawa Carpet Housr

Bryson, Graham \& Co.
(Q1)
Carpets.
The Largest Stock. The greatest Bargains. A line of Parlo: Tapestry 40c. yd.

Flioor Oil Cloths.
Reliable makes Market low to sell. From 25c squareyd

Money c $\quad$ n be saved $\mathrm{Al}^{\prime}$ complete from 25 c

Lace Curtains.
Small Profits and Quick Sales is the se cret, from 45c per pair

All other Furnishing Goods at prices in proportion.

## Bryson, Graham \& Co.,

146 to 154 Sparks St., - Ottawa.


[^0]tolinceo and tobaceo receipts were legal tender: corn and beans and coillab were alno employ ed.
The small, hard shell. known as the cowrie, is still used in ladis, the Indi. an Isiands, and Afrien, in the place of Aceording
Aceorifing escott, the muney of the Axtecs snat we nations in kin , conainted of quills filled with gold duat Before the introduction.
moner the firon and copper were or apike wix being a drachuer or hanilful.
Barhar Carthagininns hal better money an in 1158 , issuing his figh twith M. so did John the Good of France in

Montesquieu as being found in certain parts of Africa. It is an idenal muney, eailed "maconte," but is purely a sigय of vaiue withuut a unit.

## A PIIORISMS.

He surely is most in want of snoth. er's patience who has none of his own

To euienvor to work upon the vulgar with fine sense is likeatempting to hew blocks with rator,-Tope
Prejudice and seif sumiciency naturally proceed from inexperience of the world, and ignoranee of mankind. Adfison.
One of the greatest of all mental pleasures is to have our thoughin often livined, even entered into with nym
pathy -Landon. pathy -Landon.
Never be discou
pider breaks his threal twonty times he will mend it ms many. Pernever. ance and patience will accomplish won-iers.-Blair.
Our desires always incruase with our possenasions. The knowlelge that something remains yet unonjoyed impairs
our eajoyment of the good before us.our eajoy
Johnaon.

## QUEER TR. DES IN PARIS.

There are many queer trades in Paris. One of the ouldent is that of "painter of
turkeys' legs" This artist is known only to the poultry dealing fraternizy and is a highly useful member of the community. By his artintie skill he enables the trader to paim off a birl of patriarchal age, with a certain vague romance as to the date of its decensc, upon the misguided housewife, or even
upon an experienced buyer, who has apon an experienced buyer, who has
learned to judge a turkey after the learned to judge a turkey after the
mannet of cookery book writers. Tur keys when freshly killed have whing black lege and claws, but as the day of their death becomes more or lens a matler of ancient histury their lower extremities assume a sinty, dingy gray
color. Old turkeys too, have long claws and horny luoking beaks, which the ingenuous artist pares and varnishtomers three or fuur times his cuspaints the feet of the birils with his solution (which was wold at a trailese. cret to the present owner for 440 eare. fully pares the nails and beak, and there you have a turkey that will feteh holf as much again. It is only duriag the desperate atruggle with the ancien beast that ensuea at dinner time that you realize how fraudulent are itm pre"Cat killers"
the few who monopolize the trade mat a great deal of money out of it Ther walk through Paris about midnigh with a mack and a counde of terriers, and when they eateh sight of a stray pus off go the dogs, who seldom return to their master without their prize. Their skins are sold to furriers and their flesh to the keepers of enting houses in the suburbs, where rabite is a fa vorite dish. But forslewud rabbit one likes to be satiaied that a bunny ha delight in this dainty reque to see rabbit's head an a proof of the bona fid. es of the diah. This would puazle an ordinary individual, but the "cat kil. ler is a genius and a Frenchman, and is not so easily disponed of
He also deais in rabhit akins, and has an arrangement with the cooks in the aeighborhood to let him have the head. at the same time as theskins of the rabgenious method he is enalied to send out is his eustomers two or three cats bodies minus the tails, with each raltbit's head, and one noore dainty dish is alded to the Parisian mean and eight or ten shillings to the well filled purse of the exterminator of the feline race. The French eapital harbors the largest number of eatis of nny eity in the world in proportion to its nise. Whole coloaies of them are to be lound in the vieinity of the markets, where they feed on broken victuals and make inAt the Halles Centrni
At the Halles Centrales their numbers have increased so rapidiy of late that a they roamed alout in loands like wild beasta, and were beginning to be dangerous. Duprex, the well known tenor anger, has earnel the sitie of Le pere des chats, for he daily feeds hundreds
of these animals as his own expense.


[^0]:    The archaic Greek money was in the stamped wick, round lumps of
    Aceording to Adam Smith it wan not so very long ago that naild were used
    an a subaidialy coin in Seotland.
    Whales teeth are used by the Fijians, red Peathers by some of the South Sea islanders, and salt in AbysOld
    Old Chinese guld coins were in the form of cubee, while the bronze was The Ieelandie and mining tools. have traces of the use of eattle for money. Many Teutonic flnes were paid in catcle.
    In the early oulonind times of 1652

