## THE NUT-SHELL, MAT, 1890.

a jointel fisbing rod, and supposing the cane, or a length of the rod, is just three feet, set it in the ground vertical. ly, nad if the sun thines, it will east a shadow ; now with a pocket-rule, you
mensure the length of the nhadow, and mensure the levgth of the nhadow, and
find it, nay two feet. Here then we find it, nay two feet. Here then we
hinve a right angle of two feet and have a right angle of two fect and
three feet. Now meanure from the hase of the tree to the end of its shatow, and we will suppone it to he twenty ply thin: fif a cane three feet himh ensts a shadow of two feet, how high must a tree he to cast a shadow of twer. ty feet? Or, in other words, if twe gives three, how much will twenty give? By the simple "'rule of three? We find the answer to be thirty feet Thus, by aimilar triangles, we have height.
Tiere is another method which has
the adve atage of being sill ole nan cone of benient, by which the height of a tree may easily be deternined by its shadow, Any person may easily measure the exact height of a
tree when the un alines, or during tree when the un ahines, or during hright moonlight, by making two linea on the ground, three feet apart, and then placing in the ground, on the line nearest the sun, a stick that shall wil. When the end of the shadow of he atick exactly touchen the farthent line, then also the shadow of the tree will be exnctly in length the snme messurement as its height. Of course, in such a case, the sun will beat an exaet angle of 450 , or junt midway below But the reader horizon
But the reader may now ank: SupWhe the sun doenn't shine what then? any eighteen fret from the base of the tree. Now place your head on the kround, with the cane lietween you the the tree, moving nearer to or farther from it until you can just see the top of the tree over the top of the cane. then place a pehble or mark on the ground at the point where yoa obtain this view. The cane being three feet high. the distance from the pebble to it will he two feet, and from the pebble
to the bane of the tree, twenty feet to the hase of the tree, twenty feet, he chit of the tree to be twenty feet, an e Inined above.
e following method, with a little practice, will enabie any person to mensure the heights of treen or other objects with approximate accuracy when the sin is not shining, and the method here given represents the nimpleat nnd quiekent way to measure solutely correct. First makect.
First make a mark on the tree or
other ohject, say six feet from other object, suy six feet from the against it. Then walk away to such n lintance that the breadth of the liand, leld out at full arm's length, will just cover the aix feet. Mark with the eye n point on the tree at the upper end of the six feet, and move the hand upwarts and another lireailth, and thus proceed until the whole height is meas tured. It may sometimes be convenient the tree, and if with his hat on he will the six feet higin, he many serve as a measure to hegin with instemit of the rod It in well to stand at some distance from the tree in making these measurements or otherwine the upper measured portions will he larger than the lower on tcoount of the "longer legs" of the maginary triangle. If the distance he too great for the breaith of the hand,
one or two fingers only may be used one or two fingers only may be uned, or nahort pocket rule. Or if the pueket
rule lue used, its separate sululivisions into inchen may lie made to indicate he portions meanured, and the whole ompleted at one meanurement. The heights of perpendicular hanks of lakes or other precipices, or the decent of $A$ waterfall, have been ainguIarly minduiged for the want of nome such menns of mesasnrement on those describe. above If the water of a lake cellent hase-line for the mesasurement of any of its shores or banks, and the tops of trees which grow upon them.

## COIN SUBSTITVTES.

Norway even now unes eorn for coin. The skins of animals were the earli est forms of money In India cakes of tea pasuas currency
and in China piecen of nilk.

Sheep and oxen among the old RoOxns took the place of money Oxen form the circulating medinm Ting to-day forman Kaftirn. value at the great fair at Nishni Nov gored.
In the retired distriets of New Guinen femaie alaves form the stanAry of value.
Among some of the native Anstraform thr currency (juie) and red vehre Chocolate in stil South Amerien foed in the interior cocranuts and egro. Iron sprikes six inndful, arestill being a drachm or parts of Central Africa.

## RIM AND MORTISE. <br> エ○CIIS, 工ATCIIES,

Escutcheons, Door Knobs, \&cc.


PACKED SEPARATELY OR IS SETS.
Ornamental Imitation Bronze.
Ornamental Geneva Bronze
Plain Brass, Plain Bronze.
Ornamental Bronze
manufactured by

## THE E. \& C. GURNEY CO., Lro. At Hamilton, Ont. <br> MONTREAL. <br> TORONTO. <br> WINNIPEG

The archaic Greek money was in the form of thick, round lumps of metal atamped with the given value.
According to Adam Smith it was not no very long ago that nails were used as n subsidiary coin in Scotland. Whales' teeth are used by the Fi jinns, red feathers by some of the
Sonth Sea islanders, and salt in Abys sinia. Sea islanders, and salt in AbynOld
Old Chinese gold coins were in the shaped iike knives and mining tools. The Icelandic and frish Iaws yet kave tracen of the use of cattle for money. Many Teutonic fines were paid in eattle.
In the early colonial times of l652,
1360.

In the British Went Indies ping, slice of bread or a pinch of snuff have all a purchasing power, while on the African conat axen are the accepted
In l6̂52 during the early colonial timen of America, musket balls possed lor change at a farthing apiece, and were a legal tender for sums under a willing
rency of all. It was eommmneat currency of all. It was the shell head sceepted by the colonints as a whan soon ent token.
The strangest coin of all, though,
wan the ideal money spoken of by the
tolaceco and tobacco receipta were legal tender: corn and heans and codhab Theraiso employed
The small, hawd shell. known as the an Islands, and Afrim in the the Indi subsidiary coin.
Aceoriting to
Aztecs and Prencott, the money of isted of and the nations in kin, conand bags of chocolate graina
money inte Grevtrotuction of coined firon and recce, skewers or spiken six heing a drachim or handful.
The Carthagininns had better money Barharosaa, during his figh twith Mil so dill John the Good of trance in

Montesquieu as being found in certain parts of Africa. It is an ideal nuraey, calleal "macente," but is purely a sign
of value without of value without a unit.

## A PIIORISMS.

He surely is most in want of anoth. cr's putience who has none of his owh To eudeavor to work upon the vulgar with fine nense is like nttempting to Prejudice and relf sufficieney ally prosed from inexperience naturworld, and ignorance of mankind Addison. ${ }^{\text {and }}$ gnorance mankind. One of plensures in to have our thoughts often divinel, even entered into with mym. pathy-Landon.
Never be discouraged by trifles. If a ne will mend it threal iwenty times he will mend it as many. Persevernnce and patience will accomplinh won Our desires
Our devires always increase with our thing remains yet unenjoyed impairs our enjoyment of the good hefore us.Johnson.

## QUEER TRADES IN PARIS

There are many queer trades in Paris One of the oiddent is that of "painter of turkeys' legs " This artist is known only to the poultry dealing fraternity and is a highly uneful member of the commanity By his artistic akill he
enables che trader to palm off a bint of patriarchal nge, with it ecrtain vague romance an to the date of its decease, upon the misguided housewife, or even apon an experienced buyer, who ha learned to judge a turkey after the manner of cookery hook writers. Turkeyn when freably killed have shiny black lega and claws, hut as the day of their leath becomas more or lean a mat ter of ancient hintory their lower ex tremities asnume a sinty, dingy gray cotor. Old turkeys too, have long, the ingenuons artist jures and varnish. es. The artist guen round to his customers three or four times a week. paints the feet of the birds with his solution (which was sold as a tradesecret to the prement owner for $\mathcal{4 0}$ ) earepully pares the nails and beak, and there you have a turkey that will fetel hnif as much agnin. It is only during the desperate struggle with the ancient rou realize how fraudulent are it pretenaions to javenality. lenaions ho juvenaity
he few who monopolize the troun, but a great deal of money out of it. They walk through Parin about midnight with a sack and a couple of terriers, and when they eateh sight of a stray puss off go the dogs, who seldom retura to their master without their prize. Their skins are sold to furriers anil their flesh to the keepers of enting houses in the vorite dish. But for stewed rablbit one likes to be satisfled that a bunny has likes to be satisfled that $n$ bunny has
been sacrificed, so the workmen who delight in this dainty require to see a rablit's head as a proof of the bona fides of the dish. This would puzzle an ordinary individual, but the "eat killer is a genius and a Frenchman, and is not so casily disposed of.
He also deals in rabhit shinn, and has neighlorhood to with the cooks in the neighborhood to let him have the heads bits for his penny or two. By this ingenious method he is enabled to send out to hin customern two or three entn' lodien minus the tails, with ench rahbit'n head, and one more dainty dish is addeel to the Parisian menu ad eight or ten shillings to the well filled purse of the exterminiator of the feline race. The French eapital harbors the largest number of eats of any eity in the world in proportion to its nize. Whole colovieinity of the markets, whers they feed on broken vietuals and make in cennant war on the rata.
At the Halles Centralea their number have increased so rapidly of late that a portion of them had to he dentroyed, a they ronmed about in bands like wild beasts, and were beginning to be dan gerous. Dupres, the well known tenor singer, has earned the title of Le pere of thesengnimals at his own expeusp.
of

