bem antil he gave them leave." And then seeing that there were no men in the bushes, and that it was only an imagination, ail fear was taken away from him ; and his courage increasing, he thoaght with himself, it is better to strike a man than to cleave man's head, and, turning the boat-look' in his hand, he struck the captain e smart How, and bade him sit down, which he did iostantly, and" so did all the rest. After the boat was come so pear the shore that they could easily wade, the mate bade the Tarks jump out, and so they did; and because they said they were aboat four miles from a tavn, he then gave them some loaves, and other necessaries. They would fain have persunded the English to go with them ashore to a town, promising to treat them with wine, and othor good things; but the mate was not so careless as freely to enter into an apparent danger, without being necessitated thereto; for, though he had some thoughts hat the Turks would bot have done him any evil, yet it was too hazardous thas to have yielded to the mercy of those that lived there; and therefore he very prudently rejected their invitation. The. Turks seeing they could not persuade hin, took their leave with signs of great kindness, and so went on shore. The English then patting the buat closer in, threw them all their arms on shore, being unwilling to keep any thing of theirs. Aid when the Turks go up the hill, they waved their caps at the English, and so joyfully took their last farewell. And as soon as the boat came again on Board, ihey had a fair wind, which they had not all the while the Tarks were on board.' Thus Thomas Lurting saved the ship and its pien ; which being thas wonderfully preserved, returned to England with a prosperous wind. Now, before the vessel arrived at London, the news of this extraordinary case was come thither and when she was coming up the Thames, the King, with the Dake of York, and several Lords, being at Greeuwich, it was told him there was a Quaker's ketch coming up the river that had theen taken by the Turks, and redeemed themselves withou fighting. The King hearing this, came with his barge to the ship's side, and, holding the entering-rope in his hand, he understood from the mate's own mouth, how the thing had happened. But when he heard him say, how they had let the Turks go free, he said to the master, "You have done like a fool, for you might have had good gain for them:" and to the mate he said, "You should have brought the Turks to me." But the mate answered, "I thonght it better for them to be in their own country."

Curious Calcodations - The following whimsical calcusion, placed before us by a friend, was designed by him "as an illustration of the divisibility of matter It appenrs to us to leave that question where it found it ; bat the culculation is in itsel carious, and will scarcely fail to amuse our readers.
Some years since, as I was siting by my freside, I observed several of my family reading by the light of a single cundle. The thought occurred-hew great a portion of the light of that condle is ased by those several persons reading? And then immediately a fecond thought-for how many persons does that candle furnish light sufficient to enable them to read, provided it tould be so distribated that the whole should be used fur that purpose, without any loss? The candle was rather a large one, and gave a very clear bright light. I found, on trial, that I could read very well with my book at the distance of three feet from the candle, and with my eyes nine inches from the book. The candle, then, world illaminate the concave surface of a sphere of three fee radius, sufficiently for the purpuse of reading. By measuring, 1 found that the book I made use of, contained on an average twenty letters to an inch, and ten lines to an inch, and conse quently, that four handred letters would be contained in a square inch. A concave sphere, then, of six feet diumeter, would contain six millions five hundred and fourteen thousand four handred let ters. This number of letters the candle would illuminate, so tha each woald be distinctly visible to an eye at the distance of nine inches.
Again, the light reflected from a single letter world render that Yeuter visible to the eye at this distance, not in one direction only tat 80 an eye placed any where in the concave surface of a hemisphare of nine inches radius. To how many eyes, then, is th light rellected from one letter sufficient to render it visible ?

I sapposed the pupil of the eye to be an eighth of an inch in diameter, which is probably near the truth. On this supposition, the surface of a hemisphere of nine inches radius, is equal to the pupils of forty-one thousand four hundred and sixty-five eyes; or to half shis number of pairs of eyes, the light reflected from a single lette is sufficient to render that letter distinctly visible. But here may be objected, and it is true, that to an eye placed near the plane of the leaf, a sufficiency of light would not be reflected Bat it is also unquestionably true, that not half of the light which salls opon the leaf, is refiected. The light, therefore, which is absoriod, would much more than compensate for this deficiency.
Now, the light which falls upon a single letter being sufficient to render it visible to 20,732 pairs of eyes, and the number of letters to the concave surface of a sphere of three feet radius being $6,514,400$, the light which falls upon all these letters is sufficient Ior $135,06,540,800$ pairs of eyes ; or the light of one candle should not a particle be lost, and the whole be ao distribated that
ench shonid receive his equal portion, is sufficient to enable $135,056,540$, s00 persons to read at the same time. If our oart contains $900,000,000$ of inhabitants, and thas, I believe, is th highest supposition ever made, the light of one candle is more than sufficient to enable all the inhabitunts of one hundred and fifty uch worlds to be reading at the same instant. This conclusion am a ware, will appear to many, perhaps to most, altogethe ncredible. But any one possessing a moderate share of mathe matical knowledge, may in a short time satisfy himself, that, re jecting fractions, it is rigidly esact.

## ANTIQUITY OF THE PENNY

The Penny is a coin of vast antiquity, Its familiar copper shape s may be generally known, is a comparativoly modern alteration f the silver form in which it was known to our forefathers. In a urious, though whimsical little work, the silver penny is shown o be derived from the Greek Drachma of Egina, which has ian era. The Drachima was atterwards coined, not only in Greece but in Sicily, Syria, and Persia. - The same coin, under the name \& Denarius, was struck ty the high consular families during he Roman Republic, and by the Emparors. The author of the vork just quoted states, that it must have been a Denarius of Ciberius, to which Christ drew the attention of the Jews when answering their question as to the lawfialness of paying tribute He alion mentions a very interesting circumstance respecting the Aureus or larger gold coin ofthe Roman emperors-namely, that in 685, under Justinian II., one was struck with a head of Christ iving him the usual placid countenance, with a full round fore head, and ringlets hanging down each side of the face, and the eard parted below in the middle.) From Rome, the Denarius was transferred to Saxon England, in 750, being there coined by he Kings of Kent, Mercia, and the other departuents of the Heptarchy. Under the name of Penny, and comparatively rudely oxecuted, it was kept up by the Saxon, Danish, and Norman ynasties, in succession, and was the chief coin in circulation down to the reign of Jolin. David I. was the first king of Scolland who is known to have issued the penny. In this kingdom it continued to be coined till the reign of James IV. In the course o is existence from Roman times to the present, the penny has been gradually reduced much in bulk. In the days of thie Repub lic it weighed from 2 pennyweights 10 grains, to 2 "pennyweight 13 grains. In the reign of the Emperor Trajan, it woighed barely 2 penayweights 2 grains, The later Emperors reduced it vearly ne thilf, mind the earitict-Saxit specimens weigh less than a ennyweight? The penny of Edward IV. was 15 grains ; tha of Henry VIII. $10^{+}$grains ${ }^{\prime}$; and that of William IV. only 7 grains.

The Enterprise of the Dutch. -The arrogance of the Englisil' the vanity of the French, the pride of the German, the superciliousness of the Italian, and the accumulated mass of all hese perverse qualities-added to the legion of devils of his own -which exists in the Spaniard, must abate a little of their preponderance, when they reflect on the inmense labor of the Dutch in regaining their soil from the sen, and in bnsing cilies on the domain ocean itself. 'I'o plant a house, they proceed as follows:When the land is marshy, they trace the square of its dimensions Wore to the depih of seven or eight feet, till they find water, pump dry, and drive stakes round the square; by means of a weigh o twelve or fourteen hundred pounds suspended from a pally he stakes are from forty to fifly feet in length, and each require on an average, an hour and a half for driving it down. One hundred of these blocks or stakes are sufficient for a small hoase The royal palace at Amsterdum took $\mathbf{1 3 , 6 9 5}$. When it is cono sidered what immense labor the towns in Holland have required or construction, what immense sams they must have cost, and what industry the people must have possessed, to enable thom to prosper with such drawbacks on their exertions, the Pyramids of Egypt, the ruins of Thebes, the Palaces of Persepolis, th Hanging Gardens of Babylon, appear no longer as visionary reams of gigantic enterprise, but as the works of man of a being capable of conquering the elements, of inverting the dispositions of matter, and wanting only pre-science to be divine -Slandish's Notices of the Northern Capilals.

The Passage of the Red Ses.-There is an obvious accession in the divine commands to Moses. The first is oniy to " stretch out his rod over the Red Sea," "that the Israelite may pass on dry ground." The enemy's attack, in the interval a baffled and bewildered by the preternatural darkness which en velope them. Bat all is provided for with the same consummate ircumspection. Even the passage of the Jsraelites by nighl may have been a precaution against their habitual fears. They follow through the ses-bed, unappalled by those natural terrors of the
transit, from which they might have shrunk in the light of day. The same obscurity which precludes the fears of the Israelites. Iso precludes the caution of the Egyptians. The movement of o vast a multitade could not have been unheard in the Egyplian camp. They instantly follow the sound, and are led into the rack of the retreating nation. But, perplexed by the solid dark ness of the clond, and evidently retarded by the slow movement
of thieir chariots, "for they drave them heavily," they labour during the night along the channel of the sea, withoat being able 0 roach the Israelites.
At length the morning watch is come' : the whole body of the srnalites have reached the shore; the whole body of the Egypdans have poured into the sea bed. The cloud rised, "and the entire scene (and surely none more anxious, strange, and magaiicent ever lay beneath the human eye) opens to Moses and to lsrael: the watery mountains; the solemn and terible valley, the long array of the Egyptian aquadrons glitering round their king: the whole pomp of war, contrasted with the awfilnesa of nature under the very impress of miracle. Still Moses awaits the divipe vill; probably to the last moment unconscious of the menne by which it was to be fulfilled. The blow does not yet fall; the arogance of the king and his host is to he hambled to the acknowedgment before they die, that there is ino strength in war againat he chosen people. At last, they cry out that "the Lord fightioth or Israel." They turn in despair. The command is now given ' And the Lord said unto Moses, stretch out thine hand over the sea, that the watera may come ngain upon the Egyptiuns." . The deatruction was total: "And the waters returned, and coverad he chariots and the horsemen, and all the host of Pharaoh that ame into the sea nfter them. There remained not so much an ne of them:"-The direct result of the miracle in the chosen people was a clange of the national heart-from doubt, mutiny and deepair, to faith,'obedience, and joy. "And Israel saw lhat great work which the Lord did upon the Egyptians; and the peoplo feared the Lord, and believed the Lord, nad his servans Moses. The mere narration of this mighty miracle is evidenoe hat it was Divine. :'The simplicity of the means, contrasted with the variety of the objects, the completeness of their accomplishment, and the suitableness of both to the trus idea of tho Deity, as protector and furnisher, place it ns much beyond the conception, as the execution, of human powers.-Rev. Dr. Croly.

To Young Men.-There is no moral object so beentiful to me as a conscientious young man. I watch him as I doasstar in he heavens ; clouds may be before him, but we know that his ight is behind them, and will beam again ; the blaze: of othors' prospority may outshine him, but wo know that, though unseen, se illuminales his own true sphere. He reside templation not vithout a struggle, for that is not a virtoe, buthe doear rosist and onquer, , he hears the sarcasm of the profigate and it eting him, for that is the trial of virtue but he henle the wo and by hivegn to ing; the atheist, who says not only int hie lieart, but with his ips, sthere is no God, controls him not, for he sees the hand of creating God, and rejoices in it.
Woman is sholtered by fond arms and loving counsel; old age spotected by its experience, and manhood by its strength; but the young man, stands amid the temptation of the world litie a self-balanced tower ; bappy" ho who seeks and gains the prop and helter of morality.
Onward, then, conscientions youth! raise thy standard, and nerve thyself for goodness. If God has given thee intellectuank power, awaken it in that canse, nover let it be said of thee, ho helped to swell the tide of sin by pouring his infuence into its chanmels. If thou art feeble in mental strength, throw not that drop into a polluted current. Awake, arise, young man! assame he beautiful garb of virtue ! It is easy to sin; it is dificull"to ve pare and boly. Put on thy strength then ; let thy chivaliry be roused against error ; let Truth be the lady of thy love-defend. her. -S. Rosc.

Hamlet's Grave.- The objects of interest to a stranger at Elsinore, are the castle or fortress and the garden of Marienslust, where is to be seen what is called the grave of Hamlet. The interior of the fortress contains nothing remarkable; the gravo is a misnomer-for Hamlet lived, reigned, and died, and was büried in Jutland. A conspiracy had been formed against his life by his step father and mother, as the ancient Dutch chronicles state ; be feigned imbecility of mind, being awnre of the plot laid to destroy him, formed another against them, and eventually burned to death the whole family, by setting fire to a house in which they were, and stopping up the doors. He afierwards resigned quietly and respectably, and died a natural death. I may affirm thant there in no brook crowned with willows near Elsinore, where Ophelia conld have perished ; and the enthusiastic reader of Shakspeare maybre relieved from the pain her fate has inspired him with, by the conclusion of its faleity. The grave of Hamlet, as seen in Denmark, is to the back of the mansiou of Mfariensiust about a stone's throw'; you catch a view of the sea between a contiguous clomp of trees planted in a circle, and it is noted by some acatered square stones of small size, which appear to have once served for a cenotaph, ind which stand on a lcooll or rising mound covered and surrounded by beech irees. I could learn nothing of their bistorythey seem litlle respected or thought about by the inhabitants of Elsinore, but pious and romantic pilgrims have conveyed away considerable portions of them, and a few years will probably wir ness their total dispersion.-Standish's Notices of the Northern Capitals.

