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No. 2.

## EDUCATIONAL.

## I.---THEORY OF EDUCATION.

[The following Eisay on Intellectual Education was composed by a Pupil-Teacher from Yarmouth at prasent attending the Normal School, and is printed just as it was handed in to the Principal.]

## INTELLECTUAL EDLCATION.

Mas is a compound being; made up of $\mathfrak{n}$ body, an intellect and a conscience; and the drawing out, unfolding, and strengthening of each of these, give rise, respectively, to Physical, Intellectual and Moral Education.

Our subject at present is Intellectual Education. I will reserve my definition of it till I have considered for a little the Intellect itself. The intellect, though one andindivisible, yet shows itself in various ways, or actings, termed faculties, from the Latin, facio, to act. These have been considered and classified difierently by different writers on Intellectual Philosophy. The classification adopted by us is Wayland's, as it is, perhaps, the easiest understood and the most practical.

It is as follows-l'erception, Consciousness, ()riginal Suggestion, Abstraction, Memory, Reason, Imagimation, and, us pervading the whole, 'Inste. I will not stop to sny much nbout the nature of the faculties themselves, but pass on to their improvement, and the means and mode of that improvement.
I. I'fincertion, is the faculty by which we become ncquainted with the external world. This, every person knows we do by meana of our five senses, viz., Smelling, 'Tasting, Itearing, Sereing and Ferling; these then constitute the perceptive faculty. It is upon this faculty, or these genses, that the very young child depends for all it; knowledge, lherefore they are the first part of its nature that comed to maturity; hence they canoot be enlivated, or edurated, too early. 'This is only done by making the child use them himself: for example, to improve the sight let the child judge the size or dis. tance of an object, and then let him mensure it to a-certain the correctuess of his judement. W'e will confine our attention to seeing and hearing, as it is with them the tercher has particularly to do. Ilearing is of great importanee, for by it the teacher can affect the tone of the mind, cnused by the relation existing between sound (especially the human - w) and the tone of the nind. In proof of this witness the power of the right lind of music in all places; in the ball-room, on the battle.field, and in the church; and why cannot the teacher wield this powerful instrument to aid him in his work? He can and should. Agrin, the teacher will find great benefit in
modtalating the tones of his voice, so that his voice singll tril thast he fecte what he anye. Whant makes Spurgeon such an arator but that he can take nilramage of this, auli give expression to hia idess in n voice nad langunge eo nafiran us un horot his listeners apylt-lommit for nimetat any lengoh of time he chomers. The teacher alangains much hy kerpiug the ege of then chim. "The "yo is the "index of the mimbl" and as long na sle teacher can keep the cye stemily fixen upon him lie is manty suro to have the attention. It is through the sense of sight that wo get our moot definite knowlolge, for "what n man secer liat will he beliese." Ilenee the selione-rexom should be: atulided with objects of all kinds, to bo used itn illustrating, in oner to give the child a definito ides of tho subject in hame, Hiroughl the sense of kight.
II. Cossctoussess. The moment tre perecive an olject there is a change produced on the mind, nad that moment the perception is done. The faculty by which we become conscious of the change is called consciousaces. It is possible to have n prerreption of $n$ thing nold yet be unconscious of $i$.For example, we may henr a minister speak mal yot he unconscions of what he is enying. Now we control this by the will, and when by its power wo turn our houghts upon an exturnal olject, we call that paying attention; when in upon our ow, thoughes, reffection. 'The teacher's province here is to incite the children to habits of nttemtion, by training them Io have a command of the will by which they can conton the mind. This he may do, to a cermin extent, by making the child gert its lessons thoroughly. 'The habit, mee nequired, will hiolp to give him that determination of character, dat When he has chosen his caling or profession he will follow it to the end ; and thas be an honour to himself and a benefie to his fellow-men.

11I. Omgisaz. Srogastion. Every chilh has an immete principle of suggestion. He scea thertinin clleet following a certain canse, the iden at once and intuitively augests itself to his mind that the same cause will produce the same effect, dec. It is this that gives almost every child a curiogity to find out something new, or a wish to learn the renson of thins.This should tee turned by the trather in the right direction and emouraged. It is not hy the oceasional glanee that the reason mond everyiling contucted with auything is found out, but by a partient insestigation of it. It is said of Newton that " he dill not know that he was ditterent from other men, but the thourght he posseressed the poeser of patient thought to a grenter "xtemt." Ile is an example worth imitating.

JV. Aesthaction, or the power by which we pass from a buowhedge of individuald to a knowledge of classes or species. Wre do this by three mental procenses, viz., amalysis, generalization mod combination. The firat resolves the conarete obigert into its parts, the second singles the parts in one bouly that arr common to othere, mad the third combines these parts togedher so that we speak of them alterwards, not the the part of one or another, but ns a class. This is one of the highest daculties of the mimd, for by it man can trace the order existing in mature, and while so doing his mind comes in centact with the divine mind and to becomes acquainted with the God of mature. To improve this faculty study science.Grammar affords a fine field for the teacher to exercise this faculty in his pupils.
V. Messory, is oue of the most important faculties because of its relation to all the others, for by it we retain the knowledge obtained by our other faculties, and recall it at any time
for present use. A perfect memory lins saserptibility of arquiring knowlelge, retentiveness in kecping it, nnd promptnesa in recalling it. The memory may be cultivated in a
 done by patient and persetering nase. We may rery much nid the memory liy having our thotaghes arrangerl, and aleo lig associating them rith others. It tho teacher would have his scholars remember idens mother than the mere vocables ho must give them a clear conception of the thing itself. This he mny in, lst, by simplifying; 2nd, hy illustrating, nul here comes in tho use of the renees; and 3rilly, by reducing to practice: by which ho can show them that they can use tho knowledge they have obtnined. leepetition is nlso of grent utility in fastening the thing on tho memory; henco the necersity of reviews, and no tencher should commence a new lesson umil he has roviewed the preceding one.
VI. Reasonise, or thu fuculty by which we go on from certnitu known facts to new and origital kromedge, Wo do so by a series of conclanions; or, we start from cerinin premises grantel by all, nul by a series of conelusions we deduce cere tuin frets equally sumbl as the premises from which starterl. It is in this way that wo can leal the misuls of chititren on from the known to the unknown, which is the true way of imparting knowledge. Reason may he improved in various waye : by the study of logical beoks, geometry, amd mathema. tics in all its bramohes. We should never attempt to reason or suy nnything maless we have a point to make out.
VII. Imagisation, is the power we have of forming picturen mad inages accorving to our own fancy. This shoms itself difierently in different persons, some have a poetiont. others a philosophical imagimation. We may improve it by "sitting at the feet of mature" and trasing out the laws, or systems of haw, existing there; by acguiring tho power of going from the visible to the invisible; and by stadying poet. nl works of high etanding.
VIII. Taste, is that part of our mental constitution that fudges of the beauties or deformitics existing in mature or art ; and feels emotions of pleasure from the one or pain from the other. The more refined the taste the greater enjogment we will have in examining the bemutiful in either. It varies greaty in different persons: some enjoying the wouderfal and the gramd, others wish fir harmony and gentle beanty. It is improved by studying the most beantiful in mane, and the best models of art.

Having now gone over the different powers of the Intellect we are in a position to give our definition of Intellectual Education. This I will do hy arying what it is not and then what it is. It is not merely imparting lnowledge to the intellect, but it is so to impart that knowledge as that all its parts shall be unfolded, directed, and strengthened; that it shall be prepured to be, thronghout is whole conree, a successful seeker affer truth. It is to train the senses to ubserve accorately; to diseipline the mind so as to endue it, by practice, with the ability to collect its energies at will and to fix them long on one point ; to infuse into the mind a principle of endaring activitv and curiosity; to necustom the abstraction to properly combine the elements of knowledge obtained, the memory to lay up carefully and recall readily, and the reason to compare, reflect, and judge impartially; and to avaken the whole sonl in quest of light, pressing forward towards higher truth and larger knowledge. If such be the work of the Educator, olt ! let not the unskilful hand attempt it.

I will conchade :ith a few general principles as to the mode of doing this. In the first place, each part must be supplied with ite proper sulyject of thought. nod secomb, supplied in such a manner that tho part itself may be exercised. This the teacher does by coming down to a lewol with his. puphls and leading them on from the known to the unknown by $n$ process of question ami cllipois. Such. at least, is my opinion of Intellectual Didueation as compratible wilh the mature of rhildren.
S. 1: 12.

## 11.-PRACTICE OF EDUCATION.

## SCHOOL GOVBRNMHENT-OLTLANE OF WHOLE: SUIB.S:Cr'.

Trus subijoct is, in our opinion, regardeal by not a kew in ton limited $n$ sense, -ns if it merely hal respece to the combuet of the selelary, or rather to the devising and executing of those rules by which their conduct ought to be regulatel.This, no doubt, forms a part, and nu important part, of School Government; but it is something, in our npprehension, fnr more comprehensivo aml exnled. 'The Monareh of $n$ free and loynd peoplo has something more to io, in wisely fulfiling the thest repoeed in him, than to inflict condign punidtument upon the guilty tranagresens. Yo hats to use reery means within his reach to encourage his subjects, thronghont their varied muks mul degrece, to habits of industry, of vitme, mel of perseverames. lie muat, no doubt, be oecasiomally callent to the exercise of discipline, to the infliction of maritell punishment; but this will only be when finibur athemblais other work, and in very proportion to the mensure of that failure. - Ilis grmad aim will be so to fulfil his high mission, as tiat ctime and vice shall as ashamed hide their face, and the necessity for pumishmen gradually be dimimished; and his anocrmment have inseribed upon its esery feature the emolhinur motu: " The maximum of excellenec is the minimum of pun. ishmene." And ns it is with the Monarch, os is it with the Schoolmaster. Ife, tom, hass to exereise diseipline. to intliet punishment, but this is but a subnrdinate part of his office ats a Manter, or Governor. He has to mantain his authority and preserve order. And, for this purpoee, he must do something more than give forth his lordly dictates, or excente the penally inemred by the violators of the laws of his establishment ; he must so organize and manage his echool, so awaken and stimulate to diligent perseverance in study, and thereby so interest in the various employments, as shall render any formal dechatation of his nuthority in a great mensure munccessary, and his resorting to punishment a matter of comparatively rare occurrence. Viewing School Government in this comprehensive sense, it must be plain to every one at all acquatinted with the education of the young that this is a sulject of paramount importance, demanding the most grave and serious consideration. We would not, as a goodly number seem to do, constitute this the sum total of the celucation of the young. This would be to convert the means into the end. The grand end of all education is the expansion of mind, the rendering of the various powers subservient to the purposes for which they were intended. But, for the accomplishment of this end, good order or good government is indispensably ne-
cessary. Yous may be a firatomite selholare prosesesed of high litemry and scientifie attainmonto and con may be well acfluainted with the business of fearhing in theory, but if you possess listle or no caparity or tact for geverning, sill vour other capahilitios will prove of little nvail;-indeed, you had better hetake jourself to some other rompluyment. School Govermment, then, is nuthing but a mumbe esential for tho necomplialument of an important embl. As, thei, the ond do-signed-the celucation of tho yomng, is, in its highrest neceptation, of incalculnble value, so a the means of secoring it.

Now, thero are four prominent puints which in tha smater of School Govermment, he now explaines, will fall to be con-sidered:-1st. There is the whole mather of incentives to diligenre; 2mb. The meana to be usced for the preacervation of gronl onder ; 3nd. The exercise of disciplino or the inlliction of pmishment; nald dh. The qualifications repuisito for all theso purposes, on the part of the liducatur.
lat. As to the mater of incentives in aliligenco in atuly, no onc, we think, who looks into this mater cau finil to apprehemed its vast importance. Nothing sub) eduention withont diligemt peromal npplication. Ame when this is gnined in all, or uren in a great majority in the school, the mater of govermment will be comparatively eadyLew chideren, however, love larning for its own sake.The great masa of children requiro to te plied and stimulated by every motive and considuration; and this constilutes ont of the most importunt functions whith tho lishucator is called upon to disclarge. Amil now an important question arises, On what principle in the conatitution of the young is he to operme in the applinneo of these motives? It is plainly on the principle of emulation, one of the inlurent principles of our mature, and which, when properly directed, is productive of the most beacficint resules. In what sense, then, is this principle to be taken, mend low is it to be phied for the object in view in consistellyy with its mature and with the only infalible standath, are pmints which will atbord a betiting theme for a future number, involving the whote matter of trapping, or of taking of phaces and of giving of prizes-pratices provalent in all comuries so a greater or lew extent. But there are other grinciples in our mature, besides that of emulation, far higher and nobler, which it hehoses the bidneator to address,other motives by which to stimulate to diligenter and pereveremance in the application of mim, and in the formation of ehat racter, nad which, white. Hey stimulate the intellect, it is not at the expense of the morat sense; yen, they operate upon the former through the medium of the hater. These are such as the following:-1st. The satisfiction and delight ariving from the acenisition of knowledge and the cultivation of the mental powers; 2ad. The gratification of securing the approbation of parents and teachers ; 3rd. The prospert of greater uscfulaces in the world; and flh. A sense of duty. This dist is vastly the most importan: of the whole, and constitutes the motive that ought to be habitually and urgently preseded. If such an instrument is at his serviec-a weapon the most powerfinl and the most extensively usctial of all, surely it is matter of lamentation that ' eachers avail themedves so nparingly of it, hundreds and thgusands being seemingly afraid to touch it.

The next point to be attended to is the means to be used for the establishment and preservation of good order. If the Teacher succeeds in animating his pupils to cheerful and persevering diligence in their memal application, much of the dilliculty comected with this work is overeome. When the
scholnea are reaularly and atcalily cmplayed there is far leas Iempintion to disoberlience, of to tho commetion of disonderly babite. Norerthelesa, thero aro meana bearing moso apceifieally "imn the mint. whirh mng and which nught in be wed for the affecting of an end mo deximble. And these are such ar line following: -

1. Thint every care bo taken to produce a farorable impresalom at the outast.
2. That the entertaining and exhibiting of a suapicious spirit be numidel.
a. That fall and regular employment be given na soon as pmesibic.
3. That as for rules ne ponsible be made, and that an excess in governing bo nroidel.
fr. Thint opery effort be used to wake up mind in tho achool nuld diatrict, and expecially to esecum tho mipport and compention of the parents.
4. That Regivtern of attendance, of diligence and good conluet ine carefully kept.

With all these applinneen, howerer, the exerciee of discipline in the infliction of punialment may be ocensionally required, and it is well both to expeet and be prepared for much enkes. Thus, it will to necesanry to open up and discuss the Whalo matter of punifhment. Afer defining purialiment ns tho infliction of pain upon the mind or bemly of an individual by the nuthority to which ho is sulject, with a view either to reform him, or to deter others from the commission of offenets, or hoth; we phall then convider what punishmenta nre improper and what nro proper. The former nee such an the follows. ing :-1at. Those which excite the feeling that an indgnity hnv been offered; 2nd. These that imply in the inlliction a lore of prolonged torturo; 3rd. Nidicule. The latter, or the puniahments that we consiler proper, are suchas these:-1 jat. Kind repmof, ndministered if possible in errivate ; 2nd. Deprivution of privilege; 3rd. Constraint or confinement; dth. Ilumilintion: Sth. Imposition of a tank. At thin stage we shall discuss the whale matter of eorporal punishment, in what cneca it mny be tried under certain conditiona, nud, in what ences it muy not. Our view is simply this, if the aystem of celucation in purely secular or intellectund, then we think it mas be resorted to, as a dernier resort, nfer every other expedient has hailed: if, on the contrary, the ayatem pursued embraces n thomugh moral training in inseparable union with sto physime and intellectual, then is it not only positively hurtful, ns inflicted by the Fducator, but it is in direct antagonism to the object contempinted.

Much, very much, of the necompliahment of the end nimed nt by nll these meana depends on the Schoolnanster himself. He miny be thoroughly conversmat with all these matters theoretienlly, and yet he may be miserably defective in carrying them intu practical effect. And this will bring under our review another and an importnat topic, namely, the quanifications of the Educator in the enpacity of a Governor or Master.Thene qualitications are such as the following :-1st. Selfgovernment: 2nd. Decision and firmness with humble confidence in his ability to govern; 3rd. Deep moral principle; 4th. Just and enrrect views of the governed in reference to their intellectual, moral and emotional sramework; Eth. Just views of the great end of government.
The above, which may be regarded as constituting a leading outline of School Government, embraces a very extensive rengu of observation, and when taken up in detail will furnish
materiel for a alsecasion of lengliened anicies. Consifering, however, the rast importance of the theme iteclf, it is camestIs hoped than neither tho time nor the energies of the writer or resiler will bo found to be unproniably empioyed.

## MFATAI ARITIMETIC-COMPUTATION OF 1 RICES .

Ilavisa alrealy offered a fet auggestions on the modic of conducting thin abury, and furnisked amo contractions by which operations in the fundamental rulea neo materinily shortened, wo proced to take op the subject in its prenctical appliention to the every day busmese of lifer. Our Rulee, to a cursory seader, may appear so bo applicable mily in a limitond number of cnses; but, hy a carcfal perusnl, ho will find them to conatitato a zastem of contractions which corers tho whole ground.

> 3. TIFKL.マF nUL,

Since 12 pence mako 1 shilling, 12 articles at 1 penny ench cost 1 shilling. And if the price of each one of the 12 articleswere 2 d ., the coat of the whole rould be 2 shillings ;-if 3 d ., 3n. :-if td., 1s.; \&e.

Then,-7'o find tho price of 12 articles at any price apiceer reduce the price to penee anil call the penceshillinge. Thus, in finding tho coce of 12 lb . ten at 3 h . $\mathbf{6}$ ad. per Ib . : 3s. 6 ? d . $=41$ fd. ; now wo haro only to call this $\$ 1$ ps, and we have tho answer in ahillings, which, when reducel, ne find to be L2 1s. 94.

Agnin,-What cost 12 yds of cotton nt 1s. 1 fd . per yd.? 1n. 1fd. $=13$ da. ; call this $13 \frac{1}{4} \mathrm{n}$, or 18 s . 3d., nul wo havo the anawer.

Nox, 24 in twice 12, and 36 is threo times 12 ; hence, if the price of 12 be mulliplied by 2 , the price of 24 is found, if by 3 , that of 36 is found, thus:-

What coat 2.4 lbs atarch at $11 \frac{1}{2} \mathrm{~d}$. per lb .?
$12 \mathrm{at} 11 \frac{1}{4} \mathrm{~d}$. cost 11 s . Gd.; 11s. Gd. $\times 2=£ 18 \mathrm{~s}$. Ans.
What cost 36 lbse sugar at 6 gid. per llo.?
12 nt Gfd. cost $68.9 \mathrm{~d} . ; 0 \mathrm{st} 9 \mathrm{~d} . \times 3=\mathrm{x1} 0 \mathrm{~s} .3 \mathrm{3}$. Ams.
Ilenec,-To find the price of any number of articies which is a multiple of 12 , reduco the price to pence, call the pence shillings, and multiply by the number of times that 12 is contained in the number.

## Examples.

What coet 96 lbs . sughr at $4 \frac{1}{2} \mathrm{~d}$. per lb . $?$
12 n: $4 \frac{1}{2 d}$ cost 4 s. $6 d . ; 96=12 \times 3 ;$ is. $6 d . \times 8=$ $3 \mathrm{Gs} .=\mathrm{fl} 1 \mathrm{Ga}$ Ans.

What cost 132 yds . lace at 2 d d. per yd.?
12 at 2 fd . cost $2 \mathrm{~s} .3 \mathrm{~d} . ; 132=12 \times 11$; 2s. 3d. $\times 11=$ $24 \mathrm{~s} .9 \mathrm{~d} .=£ 14 \mathrm{~s} .9 \mathrm{~d}$. Ans.

## it. FODTY-RIOHT RELE.

Forty-cight farthings make one shilling ; therefore 43 articles at $\frac{1}{4} \mathrm{~d}$. cach cost 1 shilling; at $\frac{1}{2} \mathrm{~d}$. each, 2 s . ; at $\frac{3}{4} \mathrm{~d}$. each, 3s.; at 9.4d. each, So. ; \&ec. Hence,-To find the price of forty-eight articles, reduce the price to farthings and call the farthings shillings.

## Examples.

What cost 48 lbs. sugar at 3 fd. per lb. ? 3id. $=16$ farthings,-call these 15 shillings. Ans.
What cost 48 yds . cambric at 1 s . $7 \frac{1}{4}$ di. per yd.?
 To find the price of 96 , multiply the price of 48 by 2 ; of

144, by 3; of 192, bs 4, dec., for example:-
What cost 102 lbs coffee at 8 ?ld per lb .?
 $15 \mathrm{~s} \times 4=5 \mathrm{c} 7$. Ans.
Mi. sixtran ame.

Three timen sixteen are forly-cight ; therefore, if the price of 48 bo dirided lyy 3 , the price of 16 will be fomd.

What cost 16 yde. inco ne $7 \frac{1}{8}$ d. per yd.? ${ }^{*}$
 $3=10 \mathrm{~s},=$ price of 16 at 7 ll . Ans.

What cost 16 tb, podn al 3td. per lb .?

IIfence,-To sind tire price of 16 articles, reduce the price to farthinge, divide by 3 , and call the result shillinge.

## Examples.

What coat 16 lbn camica ni 10 fd . per 1 tb ?
$10 \frac{\text { ghd }}{}=42$ farthings ; $42+3=14$; 24s. Ans.
What cost 16 lus, ronp at Atd. per th.?


- This is a very uscful rulo. It is adapted to any number - Which is a mulliplo of 16 ; as $32,48,64,80,96,112,128, \mathrm{Rc}$.

To find tho prico of any number ol articles which is a mul viple of 16 , reduce the price to farthinge, divido by $\geqslant$, call the result shillinge, and smultiply by the number of times that the number contains 16.

## Examples.

What coat 64 articies at 9 did. each ?
 12s. 1d. $\times 4-49 \mathrm{s.44} . \mathrm{m}$ 29s. 4d. Ans.

What oost 112 grmmars at 18. $2 \frac{1}{2}$ d. ench ?
18. $2 \frac{1}{2} \mathrm{~d} .=58 \mathrm{f} . ; 68 \div 3-19 \frac{\mathrm{f}}{\mathrm{f}} ; 112-16 \times 7$; 19 fs.
 iv. one hundrkd nule.

Ono hundred farthings aro twenty-five pence, or two shillings and one peany. Hence, to find the price of 100 articles, for every farthing in tho price take 2 shillings and 1 penny.

## Examplse.

What cont 100 boxes maiera nt 27 jd . per box?
2 qu. $=11$ farthings; 22s. $11 \mathrm{~d} .-$ fl 2s. 11 d . Ans.
What cont 50 the. rico at $8 \frac{1}{2} \mathrm{~d}$. per lh.?
$8 \frac{1}{2}$ d. -34 farthings; $84 \div 2=17$; 34s. 17d. -35 s . 5d. $=£ 1$ 15s. Br. Ans.

What cost 25 yards cambric at 10 ghd. per yard?
104d. -42 farthings ; $42 \div 4-10 \frac{1}{2} ; 21 \mathrm{~s}$. $10 \frac{1}{2} \mathrm{~d} .-$ £1 13. 10 दुd. Ans.
v. Two hundred and forty nele.

There are 240 pence in a pound; therefore 240 articles at 1 penny each cost 1 pound; at 2 pence ench, 2 pounds; at 3 pence cach, 3 pounds; \&e.

To find the cost of 240 articles, reduce the price to pence, and call the pence pounds.

> Examples.

What cost 240 articles at $2 \mathrm{~s} .7 \frac{1}{2} \mathrm{~d}$. cach ?
23. $7 \frac{1}{8} \mathrm{~d} .=31 \frac{1}{2} \mathrm{~d} . ; £ 31 \frac{1}{2}-£ 31$ 103. Ans.

What cost 120 articles at la. 51 d . cach?
 £17 10з. $\div 2=£ 8153$. Ans.

What cost 60 articles at 49 d . cach ?
47d. -£4 15s. ; $60=240 \div 4 ; £ 415 \mathrm{~s} \div 4=£ 1$ 3s, 9d. Ans.

What cost 80 articles at 5 s . 4d. each?
5s.4d. $=64 \mathrm{~d} ; 30-240 \div 8 ; 64+8=£ 8$. Ans.

## vi. trentit hule.

This rule depends upon the fact thas twenty shillings make one pound. It is:-To find the cost of twenty articiea, for orery abilling in the price tako a pound; and in propottion for the parts of a ahilling. It will bo seadily ecen that 20 articken at 1r. each anst $\quad$ £1 0
at Gu.
100
at 3 M $\quad 50$
at lich. 20
at la.
18
13
10
21 fd .
b
And no difficulty will be found in calculating for 8 d , 10 ad. . or any oller part of a alisling. And by this rulo may be found tho cost of any number of articlex, which number is a multipio of $20 ; \mathrm{as}$, to find tho cost of 40 , multiply that of 20 by 2 ; of 60 , by 3 ; de.

## Examples.

What cost 20 dictionaries at 7r. 1 di ench?
7s. 1 \}d. : $£ 7$ 2s. GI. Ans.
What cost 60 reniers at 3k. 3d. ensli?
3s. 3 d ; $00-20 \times 3$; £ $3 \mathrm{5p}, \times 8-£ 0$ 15s. dns.
What cost 140 Diblea ni 3s. 4\}d. ench?
8s. 4\}d.; $140-20 \times 7$; £3 7s. 6d. $\times 7-. .23$ 12s. 6d. Ars.

By means of the six rules here given, calculations are readily mado when tho number of articles is ciller of tha follow-ing:-12, 16, 20, 24, 25, 30, 32, 36, 40, 48, 60, 60, 64, 72, $80,84,96,100,8 \mathrm{c}$. And by separato calculations for the intermedinto numbers, which can bo readily made, tho cost of any number of articies at any prico whatover may be found.

Examples.
What cost 49 articles at $7 \mathfrak{j d}$. each ?
By Forty-eight Rulc.
7 7d. - 31 farthings.
31s. - £L $110-$ price of 48.
77 - price of 1.
f1 1173 - prico of 40. Ans.
What cost 77 at 28. 2\}d.?
By Twelve Rule.

$$
2 \mathrm{~s} .2 \text { gut. }-26 \xi \mathrm{~d} .
$$

£1 $66-$ rrice of 12 .
$\begin{array}{lll}719 & 0 & -p \text { price of } 72 .\end{array}$
2n. $2 \mathrm{jd} \times 5$. 11 0\} - price of 5 .
£8 $10 \quad 01$ - price of 77. Anc.
Or, by Twenty Rule.

$$
\begin{aligned}
& \text { 28. 21d. } \\
& \begin{array}{lll}
\text { £2 } & 4 & 2
\end{array} \text { - prico of } 20 . \\
& 8168 \text { - price of } 8 \dot{u}^{\circ} \text {. } \\
& 2 \mathrm{~s} .2 \mathrm{j} \mathrm{~d} . \times 3=\quad 671-\text { price of } 8 . \\
& £ 8 \quad 10 \quad 01=\text { price of 77. Ans. }
\end{aligned}
$$

These examples are sufficient to show that the preceding rules are of general application,--that by them the cost of any number of articles may be found in a fow momence, with. out having recourse to tho slate and pencil.

## IV.-EDUCATIONAL INTELLIGENCE.

COI.ONiAL.<br>



 tion. We were mulb, gratifiel trith the whole rondition num

 tom. The pretty netel ilirising villoge of Mallomi, milunted at tho month of tho shmbenarsilie, is mainly ilepembent on tho Ahipping natd fishing interests. Since our lact visit $n$ handsome l'realigturian placo of rorahip has heen creved, on $n$ very commanling site, which enhances very inuch the rhole napert of the village. There nre generally one or two reselita ey tho atocke. One of comaidernble aize was juat on the eve of bering lamelhed on areavion of ame viais. Wo regret to lime that since we last vicited his henatiful village, two yenra ngu, no progrese lina luern mate in Education or in Scheol Aecommonhtaon. The ohal School tlouse is neither allited to lier place nor capmble of lecing repaireal ; and we trat the day is bot far distant when a commondious buildug will bo crected, contnining two nimentants nud furmishity sufficient rown for 1010 or 130 chilldren. Withiam amike and half or cwo miles of the cillage there is nbuminat population for n primary nom a nuperior or (immenar School under the same reof, the former taught by a female mud the latter lye a mate, both carrying on the amme syatem nond the one feeding the ower.This would lurnish lwih the chenpers and masi efficient cila. cation, nad would prove of rast usility to the whole neighlveur. hexal for miles around. The drive along the shore from Mailnul to Walton, throngh Noel, is excecelingly beantiful, num in rome phaces, surli as akout Teneenpe, allogether inmantic. Tlie lissance from Maistand to Ninel ia twelve miles, and thence to Wilton sixfeen. The Farming aling the shore is, generally npraking, in na ndanced condition, far beyond what we had any dede of. We san Farms in the Smitho and the betomore setthementa, nud in the neighbourlated of Walton, lhat would we writh mily in the l'rovinec. Now, that the Farmers have sern amel reapeal the benefits arming from the aphlemuon of Marb-Mtul to the ternloxing of the soil, we hope that they will feom adopt the pruetice of sowing a larger bremdh of Turnip andeother (irecn Crops. To depend entirely whon the thay, whether Cjplated or Marsh, for the feeding of the Stock during our loug winters, is neither so bencficiad to the the catte or the lamd, nor to probitatio to the Farmer, as upon a mixture of Hay, Strmw aml lexots. If every Farmer nlong that interesting shore, with so many fertilizing capablaties, would just rowolue 10 grow every gear an acre of Charnip, and one of l'otato, and one half acre of Carrot and the other half of Mangold Wurtzel. it would produce n completa recolution on the whole of his operations in the course of a fuw years. Thas would requiro his umbivided attention in the Farm. Betwen Nocel and Walton we had some converantion with a Fanmer, who tohl us time for soven yeara he had not hought it harrel of flour, that duriug that titno he had mised cnongh, ame more than cunugh, to supply his own "unts and those of his tamity; ased added, that he foumd his Farm had done vastly better, since he devoted to it all his
time and energy, lian when be engaged partls in tarming. partly in nahing, null partly in plastering. This we considered a nolle sentiment, and ampls coulfmntorg of what we hare ngain and again repented in the pages of our Journal.

We were aleo much gentified in our ilrive along these ehores to fird the subject of tialuention receiving such a alinro of pubb. lif altration. A fer of tha Schimel Honses on the remil, it is truc, wo tound Anoccupied, but the great myjority of these luildinge nee commodiour, nanl evilently keep full paco wilh the dwelling hensese nuid phacea of worship, mul this is sho utmout that enn lie experted. We think wo could, by irrefmgalio argument, catnblish the position, liat achool houses, oughi to he in nidvance botio of the divelling homace and places of worahip, but so long as they keep eqpand pace with theso cdifires we ser mo mom for complnimt and when they do so, it is 1 pretty goxel index that tho sethmentis rising in intel. liyence as well ia in menne.

We arrived at Walton in timo of netend: Ruciev of the Schoml therc, conducted, na far me practicable, inn necombane with thu 'Iraining Syalem. Though Mr. Forbes had not heen at wotk for more than two monithe, wo were delightal to uli: serve the order naid abedienco shat prevailenl. Withoun these, tha heat qualibeal temeher can neiher do justice to himedf nor his selolare, and when these hano been obinined, not hy physiral, but loy momal menna, the triumph achieved is all the greater mind the proper basis is luid for the erection of a gosalby superatructure. Tho specimens given of tho progiass of tho pupila, in Mental Arithmetic, Grammar, Geogrnglhy, ice., were highly creditable. Wo were apweinlly delighted to find that the Geograpiny of Nova Scotin reccived such a large share of atiention. Wio hold that the Geography of our antive country ought to be first nad thoroughily studted, and not only its geography, but its history mad its resources;-andon these grounds wo rejoice in the near prospect of our having not only a more completo Gcogrnply llook, but a larger Map of the l'rovince than any yet publishad.

We were plensed to observe that this System of Eduration, however bried the duration of the experiment has been, is begimning to be uppreciated by tho good folks at Wiator. The Schend is alreably so mumerously attended that nat enhargement of the roum is found to be mulispensably necessary. We trust the next addition will be, nulthat at no distant day, the erection of anothas apartment for a Female Peacher, thent Mtr. Forbes maty be in a preition to desote mure of his timo and energies to the education of the more advanced. At this moment, we believe, were all within two miks of the village of Wation to unite their inthence and means, a etructure conld be ereeted, with two apartments, sullicient to necommodate 1,0 children, and two 'Teachers supported without the smallcot dilliculty. And in what enterprise could they combine their strengh more inviting, or encouraging, or philanthropic, or (iefl-like, than in the furtherance of the celueation of the rising generation aromad.

To the Exitor of tho Journal of Educatlon. Minton, Queme's Cotisty, August Gth,

## Mit. Enitoli,-

It must be a source of much gratification to you to witness the cheering results of your labours in the causce of Education. Those invalunble principles which you have sentlered broadeast thrughout the length and brendth of our Pro-
sinec, ano in many places taking deep ronl,-cmalicating ig. narnnce anil prejudice, and hill fair, cre long, to molify tho whole nepect of society by dereloping tho pligrient, imellicestal, and moml eacrgies of the goung and rising gencmitionWherever the tmining aysiem line been introduced and efficientls carriem oul, it tha given, wo believe, general satiafnctionIt is, in fact, the aystem which recommends itsell in every mind not hinssed liy selnohmeas of blinded hy prejudice.

The inhabitants of this vilago linve laken a nolle estrite in the cause of Kiluention. Whilompinly accumulating wenlht, erecting eplendinl privnto celifices, and surmunding themeelves will sill the external elegnicies of refined lifr, they did nol forget to atiach grent impmetnuen to tho mental cultivation of their offapring. This fact will immedintely become npparent to nny person viating lie School, which, in en far as extemal armanementis are concemen, is rivalled by very fer in tho Proviner. Tho School llimee, a largo two story buililing, is so situated na to command a fine view of the village. The greater pint of the lower atory is divided into two mome. thich are furnished will necommonntions for abont 130 piljilis. Tho upper story ia used an $n$ Tempernnec Ifall. Last sumber the people ngreed in meseas linemselves to the nmount of $£ 300$ per nnmam for the aupport of the School, nad nleo to lave it combucted neconling to the Training Syatem. Abont tho ist of November thay auceceded in obtnining ewo Tenclers, $n$ male and female, from the Normal School, who come menecd operations with upwaris of 130 pupila. During the winter much inconvenience was experienced from tho want of Text lboka nad suitable nccommodationn for so largo n momher. Theso almeultien howover, were inken into necount by the people, and at the expimtion of the first linlf year they determined to enlarge the establiathent, and give the aystem n fuir trial. IInving filted up the Temperanco Itall for a School liom, they employed nnother malo Teacher, and early in Tune the School was reopened trith three departmente.Ahout 180 pupils are now in nttendinere, and wo trust that something is leing done townala developing tho plysical, intellectual, and moral powerk, and forming the habia of this very intercating group.

Muelh credit is the to the Trustecs of this Seliom, whohate apared to pains in earrying ont their design. Ware Truaters generally, and all those entrusted with the oversight of Falucation in their reapective distriets, more nlive to tho importance of the sulject smb more netive in promoting its interests. we melieve, Sir, lint much mote might be done fowards eetatslishing and sustaining efficient schools in many now neglected districts.
W. 1 .

## gTati of gidecation in newfoundiaint.

## Second Article.

Tonenn are three Aculemies in operation in St. John's, the Cagitai of the Culony. It might ba aupposed that in receiving a classienl nad commercial education, the children of tho upper classes, in a town of 25,000 inlabitants, might be permitted to minglo in the arme Institution. But the motto here, in every ense, is "division and subdivision." Accordingly, there are Rotuan Catholic, Episcopalian and General Protestant Academies. Last year the Wesleyane, who were previously wited with I'reshyterinns and Congregationaliste, became uncomfortable under the impression that they were not on a level with the other denominations; and demanded and
nheninel a grant for a separato Acailemg. Thus, in fubure. there will be four $\lambda$ dendemies in St . Jolons, sustained at a mat in the colony of $\mathcal{E 1 , \pi} 00$ sterling per nnaum. In nadition in this, the sum of $£ 3,000$ sterling tas voled to nill in receting Acnilemy Buildinge. Ilere agnin we observe the etil resulta of the Separate System of Eiducation, Alout 180 brogs are rereiving an clucation in these Acallemics, it a cost to the Colong of L! ka , stering per pupil, prer almurn. Tho fees chargel are high-maging from it to fll per ammum, arconding to the branclisa tmught: en llint only the midalle nont upper clases ean afoerl to acmi their childrent to these fustituitions. If parenta are awaro of the fuct, it mual lee a acriona suljeed of reflection that cach of their children, in netemidnuce. is a burilen on tha Coloninl fumla. to the exterte of $\mathfrak{5 9} 8 \mathrm{se}$ per namum, in mildition to the feca liey nere calleil upm to pay.What a fing Colloginto inatimsion, rith a splenting kinif of I'rolesaors, mighe le in opermion, imparting a moblo impulec in the whole intellectual cullure of the community, for sho eminn which hieso Acmiemina corl! 'Their income, from all sourwa, rannot be under 22,700 eserling per annum: anil might ensily hreomn 53,000 . Allowing a etaff of cight l'rofeseore, nt £300 sterling fier ammina cach, for atech a College, lime would remnin figo for genemil expences. The l'rufesenta in the Uinerois Colligea, Irelnmi, recrive only nlout La00 per
 altainments. DEfually nhlo men midht ise had here, for $\mathbf{L} 300$ per anmun. Instead af a Colligen of his deacription, wo linvo itireo Acsilemies, mind shortly aladl have four, in which tho chucation imparted does not rango higher than that given in uny respecinalu Clasnical and Commercinl School, in a moderntelysised town, in the old conntry. The coume of inatruction embraces the ondinary limnchea of an Lingliala Eduention, will Clavica, Minthematica and some of thu Nalern Iangungera The Masters are reapectable and well cilucnted men; one of them, in particular, tho Miater of tho Genornl l'mestans Acmdeny, is deservelly estecmed; and, na an Eincontionist, ocrupics a high mank. The Roman Cntholic Biadop is making stremuous efforts to elevalo his Aeademy to the mank of $n$ Collego; and has erected a maguificent luvilding, and engnged the aervices of some evachera of eminence, it in snis. The Episcopalinua are crecting a buithing at a coat of £3,000; sull have now of their clergymen at the hrad of their Acudeny. It in, however, a grent minforthono that division exists even in the higher lirnncles of Ealuention. An expensive and compratively ineflicient system is the result.

The Inapretors embime in their Reports the two remaining danses of Schools-the Commercinal nad Elementary: nnd from their accounts we aro allo 10 form an opinion of the educution imparted. These gentlemen nppear so havo diecharged their laborious luties failifully and ably; nnd, whila evilently not measuring tho sehools and senchera by a bigh stamari, and nnxious to deal leniently with defects. and apeak encourngingly of the schools in operation, yet they haveriated ennugh to show that the achools are in a very low condition, with a few exceptions. 'The diference betwern the Commerrial Schools (twenty-six in mumber) and the biementary Schools, is almost nominal,-the former being, in some instanees, a shade two better than the latter, having better quar. lified teachers. In both, the principal bmoches tauglat aro Mesiling, Writing and Atilhmetic ; in a very fow instancea, somo attempt is made at teaching Euglish Grammar, Geogmphy and Sarigation. The l'rotextant Inspector ataten that "very few of the teachers understand Endiah Grammer," and that Gengraphy is nlmost overlooked. The Catholic Inspector found only 9.4 chiliren out of 5,670 learning Grammar and Geogrophy; 9 learnimg Navigation; 5 Book-kecping, and 11 Geometry. The majority of the Elementnry School Teachers, in the outposts, are lishernen who have simply nequired the ability to read, write and cypler after a lashion; and in order to eke out their incomes. most of them are allowed a vacation of aix or cight weeks each summer, to fish. During this periol they drop the ferule, and tuke up the "hook and line." Tho Catholic Inspector says of thoso under his charge,-" to mako up tor the insulficiency of the salaries the tenchers are permitted to take a large portion of the summer, which they some-
times ementrive to hagitirn out into the entire. to follow their nomptione as follar rina be."
Such iving the clintacter of the teacheres it ia not enpriaing to find that the nllatithe tite of the chiidron ate, ne a gitieral
 cd. It in atrange to flul that with an lialuentiemal Cirant of







 emiaing than this, to fit them fur the duties of life. 1lere neo

 mentary Schocel:- The arlingol is krpe in n dwelling hentag rented by the lisami nt fe per namum. Is is n runtel stani

 lis 18 frel. it is nttemptit to lin wirmed liy n fire on the
 the blarkneas of the le,le nend walla ia an indiention that it
 ren, neul his resillener ia ne comfortiese na the echumel holiane.

 -The achical house ie of the humbiret deerription. It in n
 equal parta, mer of whiti lo or upind by the 'Trasher's family,
 'Tracher mampinins that the snow drin conces in all over in

 liere is "The l'uratil of Kinowledge under Dillitultics"-tho enoir drin and the aronke to combat ngnimst, naul lise sroky lofighta of learning to bes sealed. Sar annod but sympathisa With the unhappy 'Teacher, nuil apreulate how he manages io diacharge his duties with n poultiee on his eye-whether be makes one eye do daty whitr the other in umier tresiment, wilh $n$ view io relince its workligg partner in turn. It is clear thast thia pinn, though donbinesa ngrecable to idly diaposed hoys, whon wabl he aure in keep on the same xide sa the pwillice, could mot go nis nlwaye. This martyr in the caumo of Ediurntion, receives $\{25$ per nanum currency. Surely the lioaral ought to voto him nomething extra to meot the expene incurred in counteructing the eflicts of the smoke in his ey ea Che lkeport ankes mestion of anohier hero, unknown to fume,

 vides hin baloure betwern two acthements four miles npart, walking 24 milea $n$ werk. Afer a survice of 30 years, he preferral the fillowing medest revpues to the Newfoundland Selhow Sociely, in whese servire he wan:-"My walk to Ship Ceve in very irying romerienes in winter, and the distance more than four miles. 1 should niwnys he most humbly thanklul if The honourable gentemen of the Society coukl gies me a warm ront for iny winter travels to Ship Cove, nfter my long perrice of 30 yenre." It is to te hoped that this very moderate demand wre romplied with. There is fomething very touching in thin toil-wom old man, nfter trulging thiry y years through
tho $\lambda$ dewfoundlaml mows, putiently doinp hisduty, the Newfoundlami mows, patiently doing his duty, looking up, nt the close, withous any murmuring, nand only naking for " $n$ wnrm cout for winter uravel"- The nged frome, dowbilesa, not belag so definit of cold ns formerly. Truly; there are more beroes in the world than history prates of!

The following entry aceurs atthe 18 th page of the Report -" November 12 th. $:$ It was $n$ verg conld day for the time of year when I visited British llarlmur. On entering the achoolroom there were but twelre children present, Alivering wath the mhli ns there wns no fire, or means of mahing one. A Franklin stove had been een: $t o$ the seliool last year, by the
i3manal, but it was unacompanied by the funnelling ond as there was no chimney to ret it into, it was not made use of."

IIcte was a pirallel so the cose of Tantalus-a good Franklin stove belore their cyes, nid no poenibility of ualng 1 -ma. diating cold inatenil of hieat: Ind the loand been compelled tor rit upon it for a few hours dnily 11 migh haso amenhened their sympalhies towarda hires alisering childern. Another school is deacribed in the Meprort as "kept durng the winter in a fialiennanis duelling house in a mom 14 fees ly 11 , warmlig a fire on lie licarth." In anolier ano fire mintid lie made fur wate of funnelling.". Northern ling School ia describet A0 "kept in nut old ilwilling linues, imiseralily mid-wrhont
 presnile among the perpie of Inintin Core:-"The Trancher tells me line their not heing clacafied is not for wamt of looks, lout theng the parente oljest to heeir chilitren being tnught in
 pupils nit insuhome lielinctuon. The Inepretor lighted on a tencher in Ainan's Cove "uho does not epell or write well
 to be divertal in arhool hours, for I percevedia new anlmom net hanging up it the schombormom." (One can eneily fancy low tempting this salmon net must prove to n 'Tencher's viro
 opition of the while from these instancer. The Inepector toumi mang echomis in a commendalifo slate of empiency, nad many desersing T'enchers. atrugglong umier diflleshacs, but atill realous naid succeseful in seme exicoti. Mnay of them, in amall arlitiement coniluct divino rervier on the Sablanth, and in addition to their onlimary dutien so other dimea, nee na untarier.

The Cntholic Inepectors lieport showa tho echool-bauses to lie in a mill more deplumble condition and the attammenta of the chilifen loner than in the criec of I'roicetamt schools. One very singulat featuro presenta tiself:-" Vilh rery few "xrepuiona." wrice the linpector. "the tenchers have nexaleeseil to keep a regiaster of the nutendance of the chuldren in ench schunol, mad I was thas compelled to trust ensurcly to thererseserion, se to the maximum sud avernge attendance of tho pupils:." It is nlmot ineredible that auch groze negligencens thin should have been eoleraled for years: nul it is evidens thr: refurne gathered from the gumeses of teschers na to the attendance, can only be reganded us an npproximation to the trulh. The Boards, however, disconer nul equal nimipnthy to returns. In the Ifith pape the Inspector snys- I have received from only feur of the lbannla of Eiduention detnited statements of the exprniliture of the money roted for cedurational purposes, in their districts." Thus hoth thu expenditure of the Boands and the miteminnce of tho chithren, in the absence of documentary vidence, muse be begroved as falling "ithin the province of the imngimation. In this way do irresponsible lloarda mamage eduentional matiers.
llere are a few extrarts from the Calholic Inspertor's lieport, ahering the most diseoumging fentures of some of the The echools:-" Ferryland Comenercial School"; "" The teachor states that he kept a reginter bat was unable to tine it. At present he keeps tha register on a slate, from which it nppears the maximum nttendance is sixteen. I find, however, from the sehool return which he filled up, that he las given the mames of 13 pupila ne the annunl sttendance. There is a great discrypancy in theac two atatements. Inm inclined to think thas his statement to me is the cortect one; and that he has given in the sehool-returst, the number that attended tho school since ite estahlishanent, through mistake; there were 1.1 in the seliool on the day I visited it. The reading of the pupila was very indiflerent; of tho two boys in arithmetic neither could work a single line in simple multiplication." "In every school I visited with a very few exeptions, the teacher complained of thes wamt of nufficient books, as well an of the mixed charncter of thate he poosesed." Of Western Bay School it is snid, "The teacher is allowed six reeks ynention in summer: but ha had, up to the time of my visit, taken eloven weeks, and, as I am unable so seo hum, I camnot kay how much longer he intended to absent humsell." Another school is thus reported (pnge 19)-"Closed since the 1th Mareh (it was now September). Sullivan, the teacher of tho school, is an old fisherman, and the entire summer is given ham

10 fish, as hia anlary te only filu. Aremge niteudage fire" Misequitio Srhan has been three yenre "with the chimney level will the mof." an that many inga no fire combit be lightrit. In Midilln I onge l'ond behmil hall ilie jupule were withoul lxoks:
 of the firpale were unpmouled with $n$ tronk since thes came to the echonil." In l'ourh Covo mily half were pervilied wilh
 wretcherlly low. Will many defecta, however, the Inapertot found murh to comment in arversl of the schonla: bill on the

 le no impmerment. In tha llamno Calhniic lias of erhoola them are five tenchers recciring $\mathcal{L} 10$ per annizm imo recrive

 the remninuler range up to Litl jer numum. In the I'rotes-


 EGS: onc. EOO.

It is very evilent that, in orter in an aner any improvement in tho J'lucational syatem. n Niormal Schome for emining
 ling, alrenily voied for the imuming of pupil teachera, would he nmply sullicient, it $n$ lumlang nere provillet. The iexi alep
 cal llonria, nul to phy all malnties, dec., thmigh n (antral IBonril direrily reaponsible to (Gorernmeut ; the lenal linards linving aimply the aupervinion of tho arhoole. A ansing of E3,6ikl per nunimm might lbus be effreted, and an average of fis per nanum adiled to ench encherin enlary. A auprior clase of 'lourhers would dius le geminally introliaced, and tho alandard of Piduration clevised. Therente ton many parties, however, intereatedin kerjang silonee on these topics, and lenving matiers sa licy are ; furd henco it is to be learcil rrform will bo alow in arriving. Alidia.
Enizatuas.-In firat article, pago 12, Inat linc lut iwo of firat column, for "78. tid. per pupil," remi " 7fi. per pupil."

## AGRICULTURAL.



## 1.--THEORY OF AGRICULTURE.

## ORIGINAI. ARTICRES ON VEGETABLE PUL: SIOLOGY-CELILCLAlR TISSUE THE BASIS OF VEGEDATION.

 TO ATUDKNTS ATTANHNO THK NOHBAL BCHUOL.

Tuene arn five aspects in which we may regaril a Plant. 1st. In iteelf;-2nd. In its relation to other plants, involving the whole sulyect of Systematic Botani; or the armangement of the Vegetable Kingdom into classes, ordera, genera and species;-3rd. In its relation to the carth below and amimal
almon, centimeing the whole suhject of the arience not net of Agrimulture, se ilepenting on Genlogy and Agricultural Chre
 ot t.-Th. In its relation to climate, whirh molitules the
 In ita reintion to past rpache in the history of our ghole, nomi this ngnin give rite to Fosil Bmany.
 plant in the dirst of thear nepresig, liast is. in itarlf. It this respert it empmena everylhing njpertnining lo the antum of tho plans, ita intervinl alructure. or ita vageta. bile contints, ile exiernal comformation, or its varinus oro gane, and the fumetioma discliargent by theer organe. The oflice performint tiy tho organe of vegelation nod prepparmion
 hometrer, we are in a proitiom fairly to monsiler the functione performed liy there organa, it limhora na in kione amothinge of the mathere of the organa liemeelvea, looth internally maid externally, and to lhis point re would note invite nttention. And Arat of all, ne to the intermal afructure of the plani, we tany
 nund the fibrous or lignowns tienne. The busis of the wholo is the cellular. 'this is componed of litile green ance or linga, all tegularly nernuged with $n$ wall of defence betemen
 ane, nfter this havo loen sulbjected to the luiling pmorra.All the iewer tribes of pinnse, such as Mushomine, Dirhorna, Searrevian and Monene, arn entirely made up ot thase litile cella. So are the first kproutinga of all planks, as well as all hisennial moote and the cdiblo parta of fruise.
 from the surrounding soil, sone of these cells elongnte nad form vessels or ducte, by which the cruide juice is moveyed to the leaf, and, affer panaing through a vitalizing proresa hirese, in diffused by these vasels over tho whole plant There veasels differ much in aliape. Some are tubea of enrinble lengelh, with deliente walla, to the inside of which a apirally coiled filire in ndherent, nad henco theso are called rpiral resaels. Somo others differ from theso apiral veasels in the thread being in capmble of unmoling, and unailly limken into shart colls or into separato ringe, sucli as in Culery or Wild Babran, nond these are called dista. Somo agnin are of greater calibre than nny other kiml of vessela, the prores leing emspiemous to lion maked cyo on the crose section of many kimes of wownl, surh an tho Onk, Chrstnm, Malogany, and which are tho large open orifieen of these versels; mul hence they nore culled dotted ducte. All these vexels emoney the ordianry thita in the plant. 13esides there, howeser, there are other vesech, which convey the peculiar secretions of the plant. These aro manifed all over the phant, and their contents, being of a milky complexion, ure milled the vessels of the lutex.

But the atalk noll phat must not only be nourinhed, but supported, nad lecese the necessily of something to itnpart moludity mad strengh. Amithis is prosided in the reoody, lig"eous or fibroun sisunc. Thix, mgan, is juat a certain portion of the cellular tisuse which has becone endurated. The thichness of this fiasue, extenderl and hariened, inerenecas with nge, by tho dejowition of enernating mather, of hen nerenving until the calibre is nearly obliternted. 'Io this eande lio diference lietween the Sap-wook and Heart-wool of trees is chictly owing. Weorly tissuc not only forms the principnl pare of wookl, but abounds in the newerbark, where it as usually more toughand Acxible, and therefore better ndapted for corrmge, coth, dic. Thus linen, for example, is made from the wooly fibres of the bark of flax. dec. It a! matounds in leaves, the framework or filmous akeletin in chiefly woody tiswice.

It has loug been ndmitted by Homnists, that the cells is "the typical element, in the etructure of the plant," that the lower forms of phats actually consist of ecells, separnte mand independent. and that the: tigher are built of the sume material compacted imo mases by varied texture. There minute cells bear tho anine relation to the entire organian, na the component materials of a building to the whole finbric.
All the parts of plants, including root, stem, lenves, fowers , and fruit, are composed of cells und vessels of different kinds,











$\qquad$
$\qquad$




rithor separate or combinom: sud ly menne of these the Almiphly Creator carries on all the wondrous procesests of vegetable life.

## II.-PRACTICE OF AGRICULTURE.

## SPECLAT, WORK FOR AUGUST.

We have nenrly npproneloci that interesting and importtant serabon of the Agrichlaral year-the arain harvest, romed which so many plasing and poesical nasacintions combine, nud in which, as the realization of tho hushandmun's Inhares the hopes of all elaseses of the commonity for the restoration of the proqurity of the Province are mainly bused. A few pratical remarks in relation to this department of Agricultural labour, will not bo considered as inopyortune.

Firat. an to the proper time for cutting grain. In general farmers nllow their gruin to get too ripe hefore they begin theie harnest operations: and the loas from this practice is, when all hingsa aro duly considured. much areater than moat people imaginc. It has beron necertained by the moat careful experiments made in the field and in the laboratory, that whent, for inatance, yields the harge-t nmount of the bust gunaty of four, whan it is cut a few dnys before it is fully ripe ; anal the reason assigned is that the grain in ripeening loses a certain nmount of stareh and sugnr, which is converted into woody fitre, a subitance comparatively innutritions. It has long been known to practical men that the grain when fully ripe is thicker in the bran and hins a conrser surfince or cuticle than when cut in a somewhat greenish state. Whem. therefore, when dead ripe contains less flour and more bran, and the straw for the same reason is less nutritious as forder. In this hot and forcing climate, where it is almost impossible to overtake harvest worls when it is not commenced betimes, and much of the best grain is lost by shelling out in the fieh. it is a matter of arent practicnl importance to determine the proper time for commencing harvest operations. If what ho intended for ared, then the grain should be allowed to ripen fully befere culting, but. for converting into tlour, it is in the best comitition for reaping as soon ins the herries have fairly got out if the milky state and linve attained to a moderate state of hardners, and the stanw hins assumed a yellowish colour. If wheat, however, be cut when toogrren. the grain will shivel in harvesting, and the sample will be of less commereinl value. On an extensive farm where several varieties of wheat are usually cultivated, and soils differ, it will seldom if ever happen that the whole will ripen preciacly at the sume time. By brginning, therefore, to cut the forwardest before it is fully ripe, with the present improved applameses for facilitatiog harvest operations, the whole tany, in general, be completed within the desired period.

The nhove observations more or less apply to the other cereals of the farm.- Barley and onts, for instance, are fregumben allowed to stand so long before mowing that a large guammy oi :..e heavien grain is knocked out in the field. often to the mmont sufficient tor seeding the satse, and sombetimes a great deal more. It is, howerer, not ceonomical to ent cither harely or oats before the grain has fully adsanced beyond the milky state, and has berome tolerably plamp, expecially when reguired for secd; but if over ripe. mess is allowed to take place, not only is much of the best grain lost in the field, but the straw becomes of litte value as fodler for cattle.
In the present season we have olserved in many fields, owing to the late severe frosts, and other causes, that the growth of the grain is very unequal, which will doubtless be the case with its ripeniug. The beat way will be to cut the
whole as soon as tho earlier portions become fully ripe, and not wait till the later grain athins that state: a proceeding that would be sure to involvo serious loss. T'o get a field of grain to grow nud ripen uniformly, is one of the principal arhievements of improved modern ngricalture, and an essentinl condition to a havy erop and superior quality.

The operations of cutting, hinding, and shocking, are frequently performed in a careless and slovenly mamer. Formerly, when our agriculture was in a cruder state and the price of grain very low, the manner of doing theso things was not of so much consequencre. But in our present altered circumstancers, when our fields in the older settiements are getting clear of stumps and othern ise improved, wilh a constant demand for produce at enhanerd rultes, the opratations of harvesting, na well na those of general tillage, should receive more attention to their various details, and as a whole have a higher finish. With our much improved reapers, rakea, te., this can readily be done both expeditionsly und profitilily.

Farmers would frequently find it profitable to pay stricter nettention to the binding annl shocking of whent, and in. deed of other kinds of grain, than is commonly done. Much inconvenience and loss would by this means be obvinted, and the work would have a more agreeable finizh to the eye. Shenves of course, ought to be bound so as to brar the necessary after haniling withont coming undone; an effect which ocensions both loss and inconvenience. When grain is cut comparatively green. especialle in showery seasons, shenves should invarinbly be made small and not ton tightly bound: and in such caso more than ordinary attention should be paid to the shocking The old country practice of "eapping" the ahork with two or three inverted shenves might, in "catching" weather, be nelvantugeously adopted with us, and much aprouted grain be thereby provented. It: the wet harvest of -if we mistake not-1855, we saw a number of harveat fieds in the western parts of the Province, in a state of comparative security, by strict attention to good shocking and careful enpping. But whatever precautionary menvures may be adopted, after a succession of heavy rains, every shock should be examined the first fine day, and if need be, taken apart and thoroughly exposed to the action of wind and sum. In such seasons grain should be put loovely into the mow, and whint would be better still, make it into small ricks in the open air. Much grain is absolutely spoil.d by being put into barns in a daunp state, wherene had it been put into ricks, the dry winds and first frosts would bring it into excellent condition for threshing. These fow hint= will suggest to the minds of our readers sevaral mathers of detail, which, in the ageregate are of much importance. And after using our best means, let us hambly trust that a bencficent Providence will "crown the year with IIis goodness," and peace and plenty dwell in the land.-Canadian Ayricullurist.

## IMPORTANCE OF IIIOROUGII TILLAGE.

Nue of the greatest amb most common mistakes to which farmers are liable is the getting of more land under tillage than they have either the skill or capital to manage in the most profitable way. This is a mistake common to the cultivators of the soil all over the world. In some of the more advanced countries of Europe may sometimes be found a sufficient amount of enterprise and eapital among individuals to manage economically and profitahly large breadths of land; but esen there, ns a general thing, it will be found that firmers have quite ns much land ns they lave the means of turning to a profitable account. The truth is, that the thorough development of the soil, in which consist; tha perfection of agricultare. involves an industrial pursuit of the highest order, necessarily requiting a large amount of capital, skill, and persevering industry. In this new wettern world these remarks are of preculiar signficancy, th the general tendency among farmers is not so
much to farm well, as to farm extensively, It is trise that when a man has to eonvert the wild forest into a farm, the operations cannot be of a very refined clatracter, and the condition of the hand for several years to come will necessarily be rough and unfinished. But in okler surtements it would bu better for farmers to llink more of inproved rulture, and less of mere territorial pussession. The patacte which so extensively obtains of estimating the Whent erop of a farm by the number of aress under crop, rather than by the probable jield per acre, is an illastration of the principle which we me now animadrerting upon; and which, in order to arrive at a practical system of good hastamery, mast be $k$ ept within poper bounds. It is imperfect, slovenly cultivation, the neglect of mamoring, of sebecting pure seed, and judicionsly changeng the suceession of crops, rather than any pecolarities vither in the soll or climate, that renders the crops of his North American continent so frequrnty fickle and dminutive. Betler, far betser leave a larger proportion of a farm in the state of prostane mature, and cultivate a lessere pertion in a thorongh and lib. eral manner. In this way the current expenses of a farm might often be erendiminished, while its proluce would sure to be inerensed. Upon this principhe the "traculamal weath of Camadn admes of a large angmemation. Ihe following observations of Lord lamon, addresed to a l'rme Mmister of Enghand, we commend to the best attention of our read-ers:-"Of all surts of thrifi for the puble good, I would, above all others, commend to your cate the encouragement to be given to hasbandry, and the improving of hand tor tillage. There is no such usury as this. The king cannot enlarge the bounds of these samds which make up hes empire, the ocean being the only unremovable wall wheh eacloseth them; but ho may enharge and multiply the revenue thereof by this honest and harmlest way of good hasbandry."

## HARVESTING THE GRAIN CROP.

In making $n$ tour of two or three hundred miles last sum. er, while our farmers were harvesting their crop of smanl grans, we becane convineed that much neghgence and waste still precail, even with some who mean to be tidy and economeal farmers.

In harvesting these grains we suppose the first important consideration to be, the time of cuntheg. When is the proper time to cut "heat, barley and onts: some persons do not commence until the leaves on the stem are deate, mud the berry or kernel is so far advanced as to be consoderably dry. Linder this practice there must be considetable loss experienced in buih grain and strati. At this advanced stage the head has leceme dry, and the latle scates which encirele and hold the grain ate separated from it, so chat at every touch it slatters out and is lost. The process hats also gone too far to permit the grain to produce as much flour and nutriment ho it would it the harvesting were done at ant earlier day.

As wheat or barley approaches maturity, the caretul observer will notice that the stem, immedately below the head of grain, shrivels, and has the appearamee of having partially become dry. When this appearance hats covered about six inches of the stem imbediately below the head, we hate been in the babit of culting these grans; the kerne! is then glazed and just gong out of the milky state. "If not reaped until the straw is wholly yellow, the gram will be more than ripe, as the car gencaty, except an late seasons, ripens before the entire of the stratw; and it is ob servable that the lirst reaped usually alfords the heaviest and hiirest sample."

Careful observation will show that "the indications of ripencess in wheat are few and simple. When the strase exhibits a bright golden color from the bottom of the stem nearly to the ear, or when the ear begins to bend gently, the grain may be cut. But-as the whole crop will not be equally ripe at the same time-if,on walking through the field,
and selecting the greenest hemds, the kernels can be separated from the chatl when rubbed through the hands. it is at sure sign that the grain is then out of its milky state, nud may be cut with safety; for although the stran, may bo green to some distance downwards from the car, yet if it be quite yellow from tho bothom tipwards, the grain then wants no furlier mourishment from the earth, and, if properiy hare vested, it will mot shrink These tokens will be found to sudiciently imdient the ripences of wheat, barley and onts; but that of rye arises from the straw loving some of its fold en huc, and becomang paler. Tho usual pactico ia Eing. land is to cot down all grain betore it is quitu ripe, and to leave it inshocks until the grain is perfectly matured and Lardened."

This extract, which wo take from an excellent Buglish work, dons not precisely agree wih our remarks in rehation to the apparance of the stem, as the hater, we have oftes: observed, may appear nearly dry for a dew ineles immediately below the ear, while the rest of the stem is quite greven. But the suggestions we have quoted ure valuable, and will aid many cultinators in deciding at what particular moment to cut heir grains.
Another loses in this harvest is occasioned by the careless manner in which grain is gathered and tied up, boing brought into bundles uneven at the emds and of irresular size, so that inthe shocking and atter-handhog, the bundles are burs, and the enrs broke: ofl. The stooking, or shoek. ing, is often so bully done that they do not shed the rain, or protect the bundles from dews, and are upset, and seat. tered by the wand. They are oflen lett uncovered, so that in wet weather, as whe che case at he hast harvest, the loss must be considerable in the quantity of grain, and more stall by a depreciation of its quatity. We were gratilied to notice in our ramble last summer that in some districts, caps, or coverings of cotton cloth, were used on stooks of grain in the fielo. It had been rating for three days-a part of the time heavily-and yet most of the stouks so covered had receised no damage whatever-all their upper portions being entircly dry. We thought that about three farms out of four along a range of towns in south-eastern New Ilampshire, were using these coverings. There can be little doubt but that the saving by their use in a single season like the past, nearly paid their cost.

It is a great loss to hurry over, or to perform indifterent. by, the labor of harvesung, because then the crop has matured, mad only meds ane step more to return to the col. tivator its prolit. The gatherngro in, and stowing away in the bara, stould be condacted with great eare, to prevent waste of erain, to protect it from verman, and to give it proper venthation, so that it shall not heat and start the germ of the seed.-New Singland Firmer.

## MOWING MACHINES.

A trial of two mowing maclines took place on the farm of Mr Lynde, in Medrose, on Tuesilay of last werk, which we had the pleasure of wituessing. The mathines used were the "Buckeye" and the "Siew Jinglander," the first with two horses, and the latter with one. The Buckeye took a swath four and a half feet wide, and the New Enghander four feet. Each cut its acre hamdsemely in fort,tivo minates. The grass wats lighe, and dhe ground a sery way tavourable, so that the habor for the horses was not se-vere,-that of drawing the one horse machine was not a heavier draft than is tequired ta the use of a common cul tivator in working corn.

After thas trial, cach machine was pat into heavier grass, where there was some patches of thack clover, and some of it lodged. The New linghander led the way, cutting the grass finely and turning a handsome double swalla. The Buckeye also cut a double swath, and did it well.

Since thas trial, we have used Ketcham's and Manny's one horse machmes in a very heary growth of clover on
our own farm. The field was on $n$ hill-side, was encumbered with applo trees twenty-five feet apart, and the clover in many places badly longed, but both manhines cut it as well as could be reasomably expected. It seems to us that the draft on the Manny was the lightest, but that tho Firtchum lime more facility in furning, and could be moved over tho cut grass, to go from place to place, with greater easc. Where a perron cana tilify tons of hay manally, either machino will pay for inself in three yara.

Dlany trials of machines ure taking place, and the public mind secoms at last to be roused to something like a proper apprecintion of their services.- 16 .

## PLOWING BY STEAM.

Illinois appenrs to betaking the leal of all the other States in agricultural progressiveness. A prize of $\mathbf{\$ 6 . 5 0 0}$ has been placed it the disposeal of its State Agricultural Society for this beat stenm plow, and. from a circular sent us, wo learn that a company has heren formed in the city of Chicago, with a capital of $\$ 50,000$, for introducting into practical use the traction locomotive totary tiller of Thomas Kiddy.

This subject is by no means n new one. although but litthe atention has berag given to it until wilhin two or three years pust. We will endentour to present some informa. tion showing what has alrendy been done by others, so that the ground may bo better understooll than it now is.

Einghand has been the experimental farm for steam plowing, efforts lasing heen tinade twenty-seven years ngo to re clain and cultivate Chat Moss by stenm machinery. An engine, stationed at one end of a plot of lamd, was employed to drug plows through the soil by means of ropes passing over the drum of a windlass. With some modifications of muchinery, this system appenrs to have heen the most successful that has yet been attempted. The person who has done most to render plowing by steam, in England, as coonomical in coltivating land as animal power, is Mr John Fowler, un ngricularal engineer, who has expended no less than $\$ 100,000$ for this purpose. He employs a portable en. gine on wheels, stations it at one end or headmand of a field: then at the other end he puts up a frame called an anchor, on which threre is a drum, and the distarce between this nachor and the engine is the length of the furrow to be turned over; an endless wire rope extends from a wind. lass on the engine around the drum on the anchor frame, and to this rope is attuched a frame carrying six plowshares, the one placed a little behind the other, 一and these turn over nix furrows at once. The engine winds the wire rope on one end of its windlass while it is given off at the other, and the plows are then dragged forward towards the anchor, and when they are reversed, the anchor frame moved a lithe forward at one heralland, while the engine moves itself forward for the next six furrows, nad the six plows are then dragged back, turning over six other furrows in returning The engine and anchor frame are thus moved at intervals on the headlands, in parallel lines, but are stationary while the plows are working. This system is very simple, and no power is expended, as in a locomotive stean plow, by dragging the engine through the soft soil. It is stated that the anchor frate can be shiffed and the plows reversed at the end, turning nearly as fast as a team of horses can be turned. By the same method of operating the engine and windhess, other implements for cutting up the soil have been tried as substitutes for the plow, such as rotary cultivators, resembling a series of revolving scrapers for planging into and stirring up the soil. Mr J. Smith, of Wolston, Enghand, has employed this method for five years with great success, nod has fuand it best to apply it in the fall. It brings all the weeds and sods to the surface, expoess their roots to the frosts of winter, and kills them; and it is recorded that suff clay soils, by this process of cultivation, have become mellow and easily workrd.
Another system of plowing, different in principle, was il-
lustrated on page 401, Vol. VI. of the Scientific American, and consisted of a locomotive, and baving broad-faced wheels, which maved over the fietd to be plowed, drawing a trans. verse frame, in which were a series of revolring plows on an endless clinin. As the plows operated at right angles to the forward motion of the wheels, the action of this plow was very defective. Another plow, upon the snme principle of operation by a locomotive engine, was illustrated on puge 207, Vol. VII., of the Scientific American. It carried five rotary caltivators, and its action impressel us favorsbly, but it has not beert able to contend with Fowler's which has taken nearly all thenteam plow prizes ofiered by tho agricultural socielics in Grent Britain. A locomotive steam plow, with a broad spiral cultirntor dragging hehind the engine, has also been ried in England, but with no success.

Littin has been done in uur own country in the way of stenm-plonghing in comparison with the efforts made in Great Britain; still, we have made a beginning, and this is checring.

In 185:, Ohed IIussey, of Baitimore, the well known inventor of the mowing machine constructed a stenm plow, nind tested it in October. 1856, ns described on page 341. Vol. X1l., of tho Scientific American; but since that period we have not henrd that it has ever bern used, nor the renson why. On the 10th of November, 1858, the steam plow of Mr Fawke- wnsexhibited and teated before the State Agricultural Society of Illinois, and although statemants were then made that it had been very successful it does not nppear to have satisfied the farmers of the "Prairie State ;" hence the prize we have mentioned, which is once more offered by the State Agricultural Socioty. Mr Kiddy's stenm plow, to which we have alluded, is a locomotive that carries its own endless railroad to prevent sinking into the soil, and thus it is intendad to save the power that would otherwise be expended to drag itself. It is, in principle similar to that illastrated on page 353. Vol. Ill., of the Scientific American. and which, in England, is called "Boydell's traction system." Its tillers are not common plowshares, but double vertical revolving screw cuttere for cutting and stirring up the soil, and they appear well adapted for this purpose. Every American steam plow that has yet been brought before the public embraces the locomotive principle of the engine moving over the entire field, dragging a set of plows, which is quite different in its nature from Fowler's, the one which has been most successful in Europe. The engine used for operating a steam plow should also be capable of being applied to threshing, grinding, and other operations of a farm, as none of our farmers can well afford to keep an engine for ploughing exclusively. In hilly countries the stemm plough will never be able to supplant horses ; but in such a State as Illinois, where the farms are very large, the soil mellow, and the fields nearly level, and where fuel is abundant, the steam plow appears to be invited to euccess.-Scienlific American.

## III.-AGRICULTURAL INTELLIGENCE.

## NOVA SCOTIA SOCIETIES.

In June last we forwaried a circular to the Secretaries of the carious Agricultural Societies throughout the Province, containing the resolution of the Legislature passed last session, relative to the management of these Societies for the current year, and also a few queries bearing on the present condition and future prospects of our Provincial Agriculture. Of the 47 circulars issued, we have recrived replies from the following Societies, viz., Parrsborough, North Sydney, Caledonia and Kempt (Queen's), Annapolis, Hebron, Bar-
rington, Antigonishe. Wallace, Salmon River (Dighy), West Cornwallia, Nino Nile River, Digby, Ilnlifax, Stewincke, Lake Ainalic and Broad Cove, Imtervale, C. B., Enst Ran*don, Truro, Shubenachdic, New Germany, Mahoue Bay, Cape Snble Island. We have perused theac 21 returns with considerable attention and imerest, and have not the slight. est hesitation in declaring that they contain a vast amount of valuable information on this important branch of our Pro. vincinl prosperity. it is our intention, in subsequent numbers of the Journal, to discuss the varione queries seriatim, noticing, as we proreed, the mpst important replies. In the meantime, we beg to tender our best thanks to such of the Committes, and, especially, of the Secretaries, as have it tended so promplly to our request, and to assure them of the gratitication it will give as to eceeive more full and elaborate communications on any points touching the sulject of $\Lambda$ griculture in their respective localities. This wns one great olject we had in view in starting the Jownal of Eiducation and Agriculture, namely, to open up a channel for the in:erchange of view and upinion, of observation and experiment, in comexion with both these deparments, on which so much of our Provincial prosperity depends. We publish below a few specimens of the replies we have received. We lase selected these, not because of any superiority they possess over the others, but becanse we were desirous to gize something like a fair representation of the views of the l'rovince at large on the various points submitted to the consideration of the ditterent Agricultural Societies.

Befor", however, we gire the specimens selected from the different districts or sections of the l'rovince, it may be well ihat we repueat the queries forwarded:-

1. What is tise present condition of Agriculture in your district-state whather yon consider it slationary or progres. sive during the last few years, and what causes lave manly operated in the case of the one or the other?
2. Is there ansthing like general attention pad to the Rotation of Crops?
3. Are any artificial fertilizers used, or any attention given to the manulacture of Compost Beds?
4. What is the average anount of Arable Land cultivated by euch Farmer, and what may be the proportion of Gran and Root Crops?
5. Do the Farmers generally possese a copy of Dawson's Agriculture of Noc'a Scotia?
6. Is there any Periodical on Agriculture circulated in the district?
7. From your own observation, do jou think that the Agricultural Societies, as at presint managed, lave been productive of benefit to the callse of Agriculture? Please make any suggestione calculuted, in your opinion, to render them still more beneficial.
8. State what you believe to be the grand desideratum for imparting an impulse to thes importunt branch of industry.

## Antigonishe, Co. Sydney, June 29, 1859.

1. What is the present condition of Agriculture?-Pros. perous. Althougli the cultivated land is probably deteriorating, the Agriculture and the people are decodedly, though slowly, improving in general position, and in horses, carra ges, cattle, sheep, oats, wheat, turnips.-Causes-Improvement of markets, Newfoundland and Halifax, and of imple ments. Commercial competition. Increased value of habor. Dtatomary in potatoes.-Catise-The continued lailure of the protatoe crop. Declining in hay.-Cause-Owing to the increased cultivation of grain.
2. What is the Rotation:-Oats, once or oftener, potatoes, wheat, hay, general cuts once or oftener, wheat with mature, hay, ctoual, but increasing. N. is.-Turnips are being introunced, but the people need the knowledge of spe cial implements for imporement of that crop, viz., the A metrigo Eagle Ilow, Ni. 1, complete, Pratt's Seed Sower, the Turmip Cutter; Purple Top Swedish Seed. 1 have found the gotatue cnion, and cabbuge tor crout, the most profitable crops 1 ever raised.
3. Fertilizers-Compost B.ils?-Nothing of the kind.The only munure tised is of the stables of the tointer.
4. Arable Land-Granin to Roots?-The land cibivated will range from 7 to 15 acres per farm; the proportion of grain to roots nhbot 7 to 1 of acres.
5. Jnwson's Agriculare? - A dozen or so of Dawson's Agriculture lans been here, but is not being sold. The people harte can read, but they with not hay bouks of any sort.
6. Agricuhtural Periodiad?-There is no Agricultural Periodical taken here, and probubly would not be, unless disseminuted gratuitously through nad within the Socinty.
7. Tha Agricultural society, as managed up to the reduction of tha Procincial Grant last yenr, latas been greully produetive of benefit in all respects. 'To make the Societies more so, 1 would (in accordance with your wish) reaperefful Iy suggest:-'That miformity in the Societies should be nimed at, and, in order to that, that a code of rules should be promulgated and made the standard of all the Societies; that it should be meumbent on ench Society nall Brameh to have an Agricultural Library of about 25 of approved Agricultural books, for the free rending of the members; that one or more Apricultural 1'eriodicats be taken for the snome olject, and for gratuitous distrmbition ; that the Provincial Grant should not be less than $\mathbf{x}^{\prime} 50$ to $£ 20$ of subscription, and that it be avaimble at once on being granted. that is, whenever the conditions of the grant tre met; that a bienninl importation of the purest Leicester Sheep especiallyallermang biemaially with a similar importution of Dur ham Cattle (or North Devons)-be, egularly imported by the Govermment and sent to the Agricultural Societies or the countirs tohere they are most aceded to be sold at auction, as we find it here even with means impossible to obtain the maternil neceseary to improve the above Stock, and which is by far the most mportant and most easily improved branch of our hushnndry.
8. Grand Desideratum ?-Several. Less drinking, more work, a better and more regular supply of water to Stock and Sheep in the wimar, destruction of Ticks on the Sheep, an ablorrence of debt, punctuality to one's word, increased society's means and milluence, saving of all the munure. The summar mamare is nearly all lost. But the grand desideratum is, I thank, the want of a litetary habit, or rather the pos-ession of it.

With these few remarks, and trusting that they will not be considered irrelevant,

1 an, Dear Sir, Yours truly,
C. W. hear veit.

Secretary County Sydney Agricultural Society.
Rev. Alexander Forrester, 1 ruro.

Pambsmono', 181 July, 1839.
Sin,-1 received your circular leter of the 1st ult., comaining a Resolutive of the House of Aseembly of last Sesson, appointing ynu to examme and certhf the accounts and reports of the Ayricultural Soc:ebes for the present year, and proposing queries No. 1 108 on the condition of agriculture in this D.sirit.
Having subnitted these gueries to the Cunanitlee of our Society, they buve directed ne to lorward to jon the following answers:

1. The present condition of garicalture is pood and proaressive. The Bounties and Preuivins gien by the Sociely for the last sev. enteen years have had some efle:t in sthmulatag it. New farms are constanty beong oecupiod. Familes are mereasing requoring more land. The zood markets tor hay and yotatoes encourage farmin!.
2. There is a regular rotation of crops in the old fields to which manuere is applied.
3. No artilicial manures, guano or bonedust have been amported, but considerable quantities of hene burnt bere have been used and lune is still sought atier as a lerthizer. Composts of ashes, hurnt clay, black mud, and wepetable sulssances have been much used, and such composts are encouraped with boumtes from the Suncety.
4. The average amount ot arable land cullivated by each farner is thirly acres, tell ot whe hare in grain and root erofis.
5. The Futurers generally have a copy of Dawson's Agriculture of Nova Scotia.
6. The Country Gentleman is read here; the Albany Cillitator was taken for sevesal years, and the Niva Scotia Culenial Farmer
i. The Society liere lian dmulteses been of benefir to the rause of apri whure. In unhis to the betiot unthagement of Socin lues, each comaly shouhi be daveded into three, figur. or five or more






 not pand shoud be sopped out of hambies or preansums to which nuruhthra in deht mas tes onue en ithd.

One pe son shoulti be pinid a a.dar) to devote his titne to superinterne the societime, reveive their reporte, rethfy their arcounte,


 nmenals of our own heris encouraned. When there was any apoecenl occasion to innpert an anmal suma fomprivato sources could be made up or quecial prants obtanners.
8. No one thing, but a multitude of thinga romhined are required to give an impalac to the agrimalure of this country. Some of theeo are mare mamure, chenp hatmr, pooll markelp, draining, setting oms akifially more oreharils, improved marelomery nucl implementen, facturime, railtoads, 2 ond rouds, the distributhon of ngricul


 nija, and thet hashandry. Alactury sur making beet sugar in eath comity.

Joms S. Smitu.
Secy. Parraimero Algrurulural sicicly.
The liov. Dr. Fumaterata, Xurnai School, Iruro.

## East mawnow agmolitene society.

## Rawoos gell Jut.e 1 sjo.

Questinn 1 at in the Cirentinc. Anmwer. The state of the Agria al-

 the purchase of two cacelletut Buths of a suparior breve, and a fice young Stork ar growne from them - We have abo sele ted the trest brevel of sharep withen our reach, from thave inported. Sunne Rums of the mixwol Sombla down breed num tome liwes by other bried's which w.re oold by I'ubiic Aucten, mad purnhased by prreons hiving in ditlerent Siernons of the Sot jety, have made a pend improvernent in our Sherep. We have alao made consider-
 share nad other lireeds. - We bave foment munh lighor saved in pure haswe llowe rakes for mane the here. We parchased a
 Alich hines have the ellect of sevom murh manal hatior. Upon

"There are sereral who have followed the rohation of Crops, and alhera liate dunce $=0$ part:ally.



 the los, of the l'onatoe crop
4. The average umant of arable hand to each member is from filty to one lumured Acres.
6. Ewery member or nearly so possesses a copy of Davsou'siWork.
6. Xe rupular lecroulical iaken hase gear.
7. We think tho Agriculural Societies ave been of much benefit to the canse of Agetedtare, by umbing the conerpies of a combined party, and gives an mplula to all their proved dings, which would nut be oflerwise carried out. By the unted athion of tho Socely, with therr general tumb, and the and of Gevermater, thry hance bera enabled to purclinse and procure Stock and Machmery, whith hey wond hot otherwse lase done. Upon thas wholu we are rather movilut forward.
8. Win teel assured that he aid paven by Govornment has in. patted an mplortant mpmise to all the Societhes; as it has bren the mesma of callume the lahidatants tonether, amel of risisng funds in addhem to what they reverne gratis, and hems has enabled them to make merovemurnts which ther would not otherwise have done.

Thes. Committce are tully persoaded, that there is no way the Lewinature could appropmaie lice sitme sum to an object of so much use to the brovince at lage.

This sturety wit hold another meeting on the 19th day of Augnst comeng, when you shath hear trom them about their share of the chvisuan of the (iovernment and whela they will louk for.

We beg leavo to suggest that it would be a preat inprovement, if it coulif he recoummemed to the Soxtries, tiat a premuan In offiered of about threa.pence per pound to any person or persons it each Socecty to rasee hoel native Clover seed, an muly of that inported is worthlese, and none so good as our own raicing

Ahat further it is our opinion that the attention of the Sowictics
 oure crop and makes exceilent breal when properly manufactured; amil a premum on thas after a certan mamber of bu-lulsts to each member tor every bushel he misea over the number of callie the nambers on his farm 1s. 3d. per Buathel would give the poor anil rich an equal chance.

All which is lumbly submitted
IAc:on Withrow.
Michart Waj.tace
WM. C. Canks.
Scled Cummilles.
The lhuv. Dr. Fohmestia

Nolith Sronkr, July 10th, 1950.
Dratis Su,

-     *         * . I ahall now proced to answer zour eighe (Q erices at the chose of jour Cin ular to the best of my jedpancin. Int, as to the state of dpriculture in this District. It is cernising progressing, althumgh not to the eane extent, that it might or coulif be wished. I can, nevurholese, sed much improvemunt in many parts of this lownstip of late years, and tho main caused, which, ill my opinion, have opleratid to produce such infprovencuts, aro thesu. - W'e hase s mue halfadozen practical harmery from the lowlands of Soothand, sutted in this Townshyp, who carry on farming on stiontilic primiples, and are not only making a comiortable, decent living, but in most cases actually anibit mones, ath their example is hippgily telling on the farmers monnd them; and I olten think liat it a few humbred suen farmers vare only senchen, one hure amel there, throughout tho Island, it is inpossalife to cal, whate bhe anount of improsement they would bo
 lins also contributed in somes measure to the proyress of agricil. ture int this Townshif. 2d, As to tha lotation ot Crops-Our Lowland Furme ra sue m lully to utuletatand and carrs out this prineıple. abal a few a thers are fuldowing thear eamaple, but not one in ten of our finrmers understand or follow the Rotnion of Crope. 3rd, ds to the manntacture of Compost beds-this I consiler to be onte of the most inge. 'rtant brand hes ol' the farmer's operation, and yet none cerminly so unth neghected. Thmoghout this laland, and uren in m! dearn t, there is sono attentios. ecrtanly pidil to compost preparation fur the last fiew yuars, but nothone to what it might and shonid be: There are no other arlofi ial ferthizers used, sue lime very nparinely. It. As tu the guantity warable land, contivateel un uny Distrint it is imposable for me to sig. A few ofour hrmers will have from 40 to 50 it res under a thorough coltivation white many of them have nut 1.5 atres. I woul. say that on an average, not over 20 to 25 acres are in perfect state of cullivation by flo farmets in thas lisumshy. Sth, Sut une in twents of our farmers hane a copy of Dawsans Wiork on $\lambda_{\text {gri }}$ whare, an cexerellent worh, wh. h should be mine hanls of esery one Gih. Our Sun iety gets 10 monthly dumbers of the Now linghant Furmer whith is diserihuted amonere the membets. Eth, Ido beleeve and verily bulicve,
 prodactive of ternedit to the Cause of diproculeure, bhough not to the: same extant as thoy hase been in other countres, where moro skill, hnowled.ere, and ineans wore brought to bear upon their proceadugh lour sumandiss Query is indeced an mportant onuanil onc that I wh not coapetent to answer. Stal I will hazamlath opmion-but one which 1 ann well arpate the Government will not act upon-even if anvocated by you; that the (iovermment woulit encourage a boly of Farniers to come from the loowlatids of Scothand, by giving them free grants to euttle th vations parts of the country. If this course be practicablo 1 kn ow of no enreater thenefit that the (jovernment conld confer on agriculture. If a Model Farm even on a small seale, was comducted by a sciemifie farmer, in each of our counties, it could not futl of being a benctit As (o) the ono at Truro there can be no doubt but it will everelse gome intluence on the apriculiure of some parts of the provence. But thit indienece cannot bo supposed to reach or to benefit this Ikland and some other distant parts-but in a very sunall dugres. Stall 1 think that it was a judictons provision, and that the mones expended upon it is not thown awas.

I am, dear Sir,
Yours very truly,
L. Rouetis80N.

Rev. Alex. Fonrfesti:h, D. D., Truro.

## Hkinon, lianaoutit, Jul.y 14 th, 1959.

Dran Gin.- liot will please excusa me fir not having before rephed to your Circular as circumstances have prevented my so doing. In answer thereto at this latu date I would beg to subnit: the following as bous as correct a comblusion as I cun arrive at, at present. With regaril to the presunt condiaion of the Agrienttural Society of tha township, I would state this it is working quite harmoniously, but is not so gencralls taken hish of by farmers as could bo wished. It hass of late oxpended ins funds chiefly in the purchase of stock from whoch a marked imptovement is alrearly to low olserved. It is lesel in contemplation to appropriate the finmes of the present jear mostly in giving premiums on slock, and vari ous products of the soit, liopugg thoreby to stimulate lisrmers to increased attention, particuldrly in stock mising; and, in orlor that tha disiruct generally may be benefitem, one condition of the pro mumi is to bo that all experithents be carelully noted, ami a correes report of the mangement in every easo presented to the So. ciety. About $\$ 12$ liave been raised by unembers this year.
lis reply to the queries proposed.

1. Although in a back ward state still I think the present condition is ono of some jrogress in many particulars, tho foremost of which 1 eonsider to be the increased athention pait to ealargiag the manure beip, "shofarmurs ininu of wealth," and in presurving manure from wasto by sleds, and in many cases, by cellars fur preserving tho liquids whith have heretofore to a great extent heen lost ; also in the extembed culture of root crops espucially :urnip and carrot. ['he eanse ot this I take to he first the neeessity tron the farcus becomung oliler and having exhansted tho fertidiang pruperthes common to new sods; and secondly tron the more wilidy extented anormanon on tho subject by ille circulation of Agriculter. al publications, bisnaja, I, ectures \&e.
2. Although nuthung like a minversal syatem of rotation provails I and pleased to atate that many farmers are giving more ab.ention to the saliject than formerly.
3. Ilerutofore but litslu has been attemples. The Aqricultural Socety is the present year experimenhing to nome extent with guano, the resultis of whels expermenta I shall bepleased to lay before you in due tume. Composting is emanderably practised.
4. The firms aregernerally small. I shound think tiom 15 to 20 aures would be abont an averago of the anomint caltivated including tneadow lami; some of course much more, vethers less, with about an equal propmetion of granin and roots.
5. I think nearlj one balt have a copp.
b. Tho Albing Cultivator is taken to sume extent, with a ferp copres of your oivn publication, the litucational and digricultural Journal.
6. Ibelieve they have been productive of math gool aven in their present meflicicnily mathaged combleon. 1 harrily teel computeat to make anje suggestiony cisteulated to benelis, but I think it eachs Soctety would exert itsell to get up an annual tar, where might be exhbited the various products and manufictures of the diatrict and at the same the comeavaur to have an Agrisultural lecture by some one competent would be one sten th the that direction.
7. In andwer to then last and most ingortant query, 1 believe the Agricultural public require enthahtenmg uponand avaking to the unportance of ther cabing; abid in ang opnion no lang would tend more to atcomplish thes, thato the usure goneral cirenation of good Anritularal publucations, the establashuents of firmurs elabs for eheating disetisston 'ipon the subject and I think carrying out the resolution embohed in jour carcular will tend greatly to ins. part uereised lite. As heretotore our farmers bave knowa but lit the about the state of she digrtulture of our own l'rovinte nothing, having ever been publohad concermang it, except the very hasts report of the Gentral lioard.

Yours truly. James Choshr.

## Mev. Alexanden Fonkester 1). D.

Watiace:, July 5th, 1850.
Rev. Sar,-Your circular to Agricultural Societies dated the 1st ult, has been submitted to the Committee of our Society who latve directed ine to offer the following answers to the questions therein comtained.

1. The present condition of Agrieulture in this district is prosperous and progressing. Tho Agricultural Society has been the: arain eause in stimulating the farmers to improve in the varinus branches of theor callagg. Remunerative prices for proluco and a realy market it house have also cone ibuted to the improvement is: agriculture in this place.
. 2. General attention is paid to the Rotation of Crops, although, perhaps, not always so systemutical as it ought to be.
2. 'lue inanufacture of Compost Beds is quite general. Bone dus: is also used.
3. I'be tiut alfurded mas too short to enable the Committee to
ascettain tho averago amount of arable land cultivated by cach tarmer

Ihe proportion of lloot Crops is small in comparisun to that of grace.
i. Diman's Agriculture of Nova Sootia has been pretiy exten. sively distributed in tho diatruct.
6 "Phere are sone perioleals on Agriculturs taken in the dis. trict.
 erety has heen prombetive of math benefis to the canse of wirn inf. ture in thit plate. An itherease to the grant to Sinceles womh mender them more useful.
8. I heltevo that proper agriculenral olucation is the gramidesiduratim for unparimis tha knorleiga neecssiry to proseconte this brancli of miduairy the most advantaguously.

Ifurihur belneve that Agrienharal Conventions, aimilar to thoou III the United Siates, would unpare an mpulas to this iluportant brinulh of induriry.

1 hato the honor to bo
Rav Sir,
Your most obt. zeryt.
Donalio Mckiar.
Secy. IV. AI, Nicrely.
The lluv. A. Follmestin, Truro.
Ansurotis, 18 th July, 1850 .

1) and uther engadements hive prevanlead mo frun ruplsing to zour
 for my scecting mattenton. I will num endeavor to reply io tho
 a very satisfatory mander
1. I consuler that the condition of Apricallure in this diatriot is surely though somewhat slowly propressivin and the improvennent during tho list fiew years is apporent. I think the intitution of tha apraculiural socuetios has contributud mach tow irds thit state, and Imay adid as other reasons that the markets haso beon food anit that tho young men are posesesed of more mbelligente amat ener: ${ }^{\circ}$ than their fathers wure.
2. General attention is not paid to the Rotation of Crops.
3. Artifisinl turtilizers are riruly usel. Mlieh more attention has beon phad of litu yoars to thg in amatacture of Cumpust than formerly.

4 Inm not ablo to answer. Genurally apeaking much muro land is cultivated, (or rather athenpoed to wie,) thats shoulit ho. If the 3 und ahoumt of manure amd habor wore appledt to one atere that is we te appled to thres, the prodace of the lurater woad the grenter. Joms Cuanty is capmatie of alsatintag a largo propulation if us arable lands were pmperly managed.
5. Very fuw of the firmers pussess cuples of l)awan's Airical. ture.
6. There is no Perioliral on agriculture circulated in the dis. triet. Somes fur persuns take the dilany Cuiatuter and Niw Englesnd Firmer:
7. I an stidiced that the dgricultaral Socioty ats at present mamaped have bee:n productae of much benetit, in pro if of whi, h

 cattle. I'here las also berol a dectided unprovenerit as respuects
 those lor whase benefit theses instifuthont aro dendened, athl if the farmery were so aives them thear suppors as they onght, the all vantares to be denived from then would be larigely increasel.
8. My beliet is that the grand desideratum tor imparting an impulac to thes inportant brancla of medustry is-Eiducation-bida. cation- biducarion.

I amtruly yours,
Gro. S. Mithabie.

## PUNTRY.

## THE WHLLOW.

" Tongues in trees-books in the running brooks"-Shakespeare.
The willow grows beside the river
And the boughs hang oier its flow,
Till dhe green leaves, as they quiver, Kisat the waves diat run bulow.
The river whispurs to the willow With a sat, mysterious tome, As the bubbles of each billow Gurgliug break on bank and stone.

What enith the river, as it alimens: In the sum. glinta through the tree, Whise the bough atoper down and listens To ite plantive melody?
"Likn my watera, life is AspingBrygheset joiys hare shorest stay-
A. noy wavis epred on warl sizhing, With thy kismes far away:

- Jluman hones nro like the buhbles Swoln and plitusering oll my tide,
Till than meke, like cartily troublee. Meet and wreek them as they pllise."
Iligh o'er willow-high n'ese river, S ans a lark in airy ring:
Whits his voice thrills to the quivor Or his sun-illumined winge.
And tho etheresnult is riven With this glad song, as ho llipe"Srek. like mer, thy joys in hersvel:. And by loppers mithin the akies."
—Dubin Univerally alingnzme.


## PROSPIECTUS

## ur tisp

BECONDVOLUME of tur:
"Journal of Education and Ayriculture."
Emton-REN, ALEXANAER FOHRESTER, D. D., Surkhintendint of Enuoathen.

THf: June number will nidah the first year of the existonce of thin pe-
 been expocted from tho partice for whome boneft it was malisif intendot. Btill, taking all thinge into noonunt. It hase hail a fair ciroulation for tho frat year of thatatory: and buth the Yelltur and tho P'ublinhere would glaily avail themaelres of then oppmatunity of tenalesing theit beat thanka to tho friende of falueation and dariculturo, and estivelalify to tho Uraduates of tho l'morineial Normal Ethuol, throughnut tho coututry, who havo exerted thotiselies son strenueusly in oftainitug aubsoribers. It is not our Intention ho make any matertal chango upun its managetaent during the onsuing gear, but ahoulif fie clroulation largely Incevare., which wo hupo it uar, to

Wo trust that tho Clorka of the difforont selition l biarilis will continuo as
 may bo furwardod.
Wo heceby ropuont and nuthorliso all tho Tenchers in tho Province wam as Agenty in thoir lucality: - itral in their no dolng. and thercby increading tho eirculation if swo Joufn 18, wo aro pernuaded they are but promoting their own unotulness ancl ounhtort
As the first ammber of the second volume will bo lasued on or about tho listh of July next. the presoat subreribert nitl ropuiro w renew their sub. sorfatione with hio l'ub inhers or Agente.

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phancipal of dalhousif collegik, \&e.

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