INFORMATION RELATING TO STEAM ENGINES.—We oftentimes receive letters from correspondents requesting us to tell them the horse-power of their engines; this we can easily do when the diameter of piston, the pressure of steam, and the velocity of piston are given; but unless this is done we cannot give the the required answer. To such enquirers the following would be useful information:—The unit of a "horse power" is 32,000 lbs lifted one foot in a minute. To calculate the horse power of any engine, multiply the area of piston in square inches by the pressure of steam in pounds on the spuare inch, and by the velocity of the piston and divide the product by 33,000; the result is the nominal horse-power of the engine. It is the common practice, however, to deduct the fourth of this as being expended on the engine itself, that is absorbed by friction, and not given out to the ma-chinery which the engine may be driving. For this reason some engineers use the divisor 44,000 in es timating the horse power of their engines. is the case with the Clyde engineers, (the builders) of the Cunard steamers,) the engines of which are rated lower than the American ones of the same power.—Scientific American.

THE BASIN OF THE ATLANTIC OCEAN.-The basin of the Alantic Ocean is a long trough, separating the Old World from the New, and extending probably from pole to pole this ocean fullow was probably scored is to the solid crust of our planet by the Almighty hand, there the waters which he called seas might be gathered together so as to let the dry land appear and fit the earth to the bant tion of man. From the top of Chimborazo to the bottom of the Atlantic at the despest place yet reached by plummet in the Northern Atlantic the distance in a vertical line is nine nules. Could the waters of the Atlantic be drawn off so as to expose to view this great sea-gash, which separates continents and extends from the Arctic to the Antartic, it would present a scene the most rugged grant and imposing. The very rins of the solid earth, with the foundations of the sea, would be brought to light, and we should have presented to use at one view in the emp ty cradte of the ocean. "a thousand fearful wrecks" with that die dial array of dead men's skulls, great anchor-, heaps of pearl and inestimable stones, which in the poet's eye, he scattered in the bottom of the sea, making it hideous with sights of ugly death. The deep supert of the North Atlantic is probably somewere between the Bermudas and the Grand Banks. The waters of the Guff of Mexico are held in a basin about a mile deep in the deepest part. There is at the bottom of the sea between Cape Race, in Newtoundland, and Cope Clear in Ireland a remarkable steppe, which is already known as the telegraphic plan cau. A compan, is now engaged with the project of a subma inc te egraph across the Atlantic. It is proposed to carry the wires along this plant au from the eastern shores of Newfoundland to the western shores of Ireland. The great circle distance between these two shore lines is 1600 miles, and the sea along this route is probably nowhere more than 10,000 teet deep. - [Prof. Maury.

How to HAVE NO WEEDS TO PULL.—Stir the ground o'ten and they will never get big enough to pull. A loose top soil can be stired up a helt dozentim's with a ho in the time required to go over i once nother pulling process. The growth of all plantwill also be greatly promoted by frequent stirring of the soil.

PRESERVATION OF MILK -The following method is recommended for the preservation of milk, either at sea or in warm crimates: " Provide put or quart bottles, which must be per eatly c ean, sweet, and dry; draw the milk from the cow int the bottles, and as they are fi ed, immediately cork th m well up, and fasten the corks with packthread or wire; then spread a little straw or the bottom of a botter, on which place the bottles with straw between them, until the boi er contains a sufficient quantity. Fill it up with cold water; heat the water, and, as soon as it begins to bo I, draw the fire, and let the water cool gra-ually When quite cold, take the bott es and pack them with seraw or sawoust in hampers, and stow them in the coolest part of theship, or in a cool place S me years since there was a Sweeish or Danish ve-sel at Liverpool, having milk on board, preserved in this manner. It has be a carried twice to he West ladies, and back to Denmark, and been above 18 months in the bettles; nevertheress, it was as sweet as when first taken from the cow." N.w. M. nthly M. gazine On this subject the Editor of the Chemist, in the May number a marks, " We lately tast d. at the Royal institution, Milk preserved by M. Wabbru's process and which had been pre ented by he Abbe Moigno to Mr Barlow who alluded to it in his beture on pr served meats and vegetables Tuis mick was one year old, a d was as sweet as when first drawn; a considerable quantity of cream had collected in the neck of the boitl s."

Rules for the Preservation of Sight -The eye should never view an intense light. The light of a flame should never fall upon any part of the eye dur-Bod es of all c dour, should be equally viewed, and, a ter regarding a bright or primary colour, repose should be sought by looking at a tert ary colour. An unsteady flame is huritui during reading or writing. The eye is liable to damage from being employed on black objects by artificial light, because a is insufficient for the purp se. The observation of objects at the reflecting angle, is hurtful, from the intensity of the right. All coverings to rights are injurious, as the ctearness of the flame is diminished; and ground glass shades are particularly detriment 1 Re ding during radway travelling is hurtful, because of the constant unsteady motion which is imparted to the book. The observation of close objects during rapid 1 comotion is trying and detrimental to vision. Glasses of reutral that, blue or green colour, may be employed to protect the eyes from a bright sun in the middle of the day; but they are i jurious when the light is of paintuly intense. Rapid transitions from darkness to int use light is hab e to be followed by blindness .- Smee on the Eye.

Genteel Professions .- Now-a days, parents ente tain a sil y notion that their children must be ins ructed in a genteel profession; they repudiate the "vulgar" notion of benging a boy up as a ca p mer, abmet maker, supwight, or in fact any occupation that involves later. He must be educated for the hurch, the bar, the law or for the post of civil engine r-bence those profess ons are overrun, and bundieds, nay, thousands of young men are a burthen upon their fam ties, being moable to find anything to do. Copy's s, as a class, are badly paid for their service; but as theirs is a mechanical occupation requiring lit le exercise of the mind it cannot reasonby be expected that th y should receive the wages or a carpenter or any other skillul n.C. bance. Genteel professions in a few years, will not be sought a tor by fathers and mothers for their sons, as a good investment for the capital expended upon their education.