Exactly as restitution, when practicable, is a condition precedent to the validity of absolution from the Euclt of theft, so reparation of the damage done to our neighbor's character must precede our being

the damage done to our neignfor scharacter must precede our being loosed from the sin of evil speaking.

The knowledge that effective reparation is a most difficult matter should prove a strong deterrent to restrain us from incurring the obligation of making it at all. We have everything to gain—peace of conscience, the esteem of our fellows, and the blessing of God—by strictly adhering to the rule graphically laid down for us in Ecclesiasticus: 'Hast thou heard a word against thy neighbor? Let it die within thee, trusting that it will not burst thee.'

The Strength of Trade Unions.

The total number of registered trade unions, according to the latest Government report, is 745; of these 603 are in England and Wales, 100 in Ireland, and 42 in Scotland. The aggregate number of members is 1,572,861; of these 1,497,527 are in England and Wales, 63,422 in Scotland, and 11 912 in Ireland. The aggregate funds in all the registered unions amount to £4,137,660. Of that amount £3,957,435 belongs to the unions in England and Wales, £163 024 in Scotland, and £17 201 in Ireland. As regards the area in which trade unions mostly flourish, Loi din stands first, with 162 unions, 438 794 members, and £1,187,642 in funds; Loincashire second, with 162 unions, 339,817 members £1,017,046 accumulated funds; Durham and Northumberland have 46 unions, with 117,514 members, and £380,745 in tunds; Derbyshire has 10 unions, with 28,379 members, and £107,692 in funds. The reason why Lancishire comes out with so small a proportion of unions and members is, that so many of the unions in the textile trades are not registered under the Friendly Societies Act. Otherwise Lancashire would have beaten London. Though numerous unions are still unregistered, three-fourthe of the aggregate of trade unionists are to be found in those that are registered

Puzzles of Modern Science.

THERE is no softer substance in the world (says an exchange) than cotton-wool, and we use it for wrapping up all our most treasured and breakable possessions. Treat this warm and fluffy wool with nitric acid, and it is speeduly turned into guncotten, one of the most terrific explosives known to so ince. A pound of ordinary gunpowder, when fired, takes the hundredth part of a second to explode. Guncotton goes off in one fit technologist part of a second. Guncotton was first discovere (6) years ago, and every country was so delighted with an explosive of such power that quantities of it were made and stored. But explosive of such power that quantities of it were made and stored. But explosive of such power that quantities of it were made and stored. But explosive with hidded 24 purple, drearfully wour ding another 60 and mide the town lookas if it had been bombarded. This led to the discovery that guncet on could be mixed with water—that is to say, the roughly damped, and so THERE is no softer substance in the world (says an exchange) than had been bombarde! This led to the discovery that guncet on could be mixed with water—that is to say, theroughly damped, and so be stored in safety, while still retaining all its explosive proporties. Torpedoes are to-day charged with moi tend guncotten at heavy pressure. Nitrogen is a dull, heavy sort of gas. It puts out file instantaneously, and kills any living thing plunged into it. Yet seventy-light parts in one hundred of the air we breather are composed of this gas. It is the twenty per cent, of oxygen which is combined with the introgen that transforms it into lifegiving, pure, and clustic air. Water, on the other hand puts out fire, and will not sustain warm blooded life; yet water contains, comparatively speaking, more oxygen than an does. What makes this embiliarion still more pauliar is that hydrogen gas, which is embilied will coxygen tof orm water, is in itself no nearly so deadly this combination still more pocular is that by drogen gas, which is combined without general form water, is in its five nearly so deadly a gas as introgin. It is the lightest of all the gases, and will burn fively in the air. Two deadly poisons appear every day upon every table in the civil edworld. One is a bluish white metal, which is so despetably inflammable that, if swahowed, it would so tone on fire inside. Five other is a yellowish gas, which will siffected instant vary lying thing that breathes it. The metal is scound the gas chorine. Yet, in chemical combination, there two form common salt. Charcoal is the purest form in which we generally see the element carbon. Who would for a moment imagine that more than half of the delicate white of an erg is composed of this back custooil? Yet 52 parts in every 100 of egg albumen are carbon and 54 parts in each 100 of the bread we cat. There is, in fact, outlon in every living thing, whether you take your own field and and 64 parts in each 100 of the bread we cat There is, in fact, curton in every living thing, whether you take your own field and blood, the pip of an apple, or the skeleton of a mouse. The pencil you write with and the diamond in your scarfpin are composed of the same element. The keen steel of a razor blade depends on carbon for its hardness. Less than one part of carbon is there to the nin ty-nine parts of iron; yet without it, the blade which will cut a lair would be no better than a barrel hoop. On the other hand, if more than that tiny proportion of carbon were mixed with the iron, it would be steel no lenger, but mere brittle cast or pig iron. Gold, when tiny proportion of carbon were mixed with the iron, it would be steel no langer, but mere brittle cast or pig iron. Gold, when absolutely pure, is so soft that it can be dented with the finger-nail. Add one pound of copper to twenty of gold, and the resulting mixture is almost as hard as copper itself. Numbers of metallic alloys seem almost miracles, so different are they from the materials which have gone to complete them. Brass is extremely unlike either the copper or zinc which make it; but the most curious thing about brass is that a very little lead added to it willicanse it in appearance to precisely resemble gold. Why duil, grey lead should have this effect is one of the make a mixture harder than either of its constituents. Phosphorus, the soft-set of all the metals, and one of the lightest, gives chormous strength and density to bronze, making it more suitable than even steel for certain purposes; and this list might be indefinitely extended. might be indefinitely extended.

Musical Copyright,

WE speak lightly of 'an old song,' but an old song has more than once been worth a gold mine. Sir Arthur Sullivan is said to have received £10,000 in royalties for 'The lost chord,' and 'My pretty Jane' is stated to have been worth to the publisher £2000 a line. 'Some day' is set down among the £10,000 songs, and 'In old Madrid,' it is said, has atready yielded a revenue of half as much again. The copyright of a song (says St. James' Gazette) is often a sure road to ease and competence, if not to fortune. That of 'For all eternity' was sold in London a few years ago for £2240. 'Maritana' was sold for £2232 at a London auction, and the same composer's 'Lurline' fetched at the same auction the sum of £2500. 'Sweet and Low' was knocked down for £214, 'Grod-bye, Sweetheart,' for £462, Blumenthal's 'Requital' for £310, and Balfe's 'The sailor sighs' for £324. The aiways popular 'Tell her I love her so,' was sold for £465.

The music to 'The Arab's farewell to his steed 'is worth in the market from six to seven hundred pounds. Verdi's 'II Trovatore' to the defect the theory of the fact of the fa

The First Prison Reformer.

A LITTLE mo e than 100 years ago prisoners were either kept in indices, to the destruction of their moral and physical being, or else were employed in what is known as penal labor. Penal labor had no purpose except as it resulted in a supposed discipline of the priso er. He was kept at work turning a crank, or in a treadmill, or throwing shot bags, or doing something else that had no utility wherever as an incentive. It was not productive labor in any sense. It was grunding, tedious, demoralising. It may have had some advantage over idieness in the way of physical exercise, but the mental and moral consequences were such as to quite overcome the physical benefits. Philanthropists, philosophers, penologists began to see that mere moral labor was not much better than idleness, and some of these men long ago foreshadowed many of the elements of modern methods.

One of the carliest of these was Mabillon, Abbe of St, Germaine in Paris, a Benedittine monk, who made himself famous in his time, and who, during the roigh of Louis XIV., had a reputation for great learning. He fore hidowed in some of his dissertations many of the distinctive features of prison discipline and of prison labor as we now know them. Reformation in prison discipline recupied his mind to such an extent that he outlined a plan for the government of prisons. He was of the opinion that penitents ought to be schuded in ordis, living after the manner of the Carthusian nonks but be employed in various kinds of labor. He would join to each celf a small garden, giving an opportunity to the penitents to take for and cultivate the ground. Mabillon was born in 1632 and died in 1707.

Gave Himself Away.

WRITING in Truth, of North Carolina, Mr H. L. Richards, a distinguished convert of 50 years' standing from the Episcopal ministry relates the following:—

I was officiating one Surday in Trinity Church, the rector being temporarily absent. At that time I was quite high church and accustomed to ring the changes on the claim that we were true Catholics—not Reman, you know. On retiring after service, I had reached the vestibule when I was met there by three Irishmen who had apparently just arrived from a journey.

They approached me respectfully, tipping their hats, when one asked, 'Your revererce, is this the Catholic (hurch?' Instinctively and without time and reflection I replied: 'No, my good man, this is not the Catholic (hurch. You see that twee over there above the houses—that is the Catholic Church.' Inagine my mortification when I had time to realise how completely and unconsciously I had given myself away. It was only another practical ellustration of the truth of the saying of St. Augustine, that a stranger going into any town and inquiring for the Catholic Church would never be printed to a schematical conventiele, but to the place of worship of the real, old Catholic Church universally recognised as such.