

roads and the pleasure of country walks. Let them, therefore, try and walk a little more; as much from the cities as possible, and as little into them. Oh! if the ladies would but make walking a fashion, what a blessing it would be. Again, we want more ventilation in our schools, churches, and houses, and the sanitary condition of our cities is capable of great improvement. Better drainage, more water facilities, and a system of ventilation in the humbler portions of our city, would, we are sure, reduce the mortality two per in one year; and the good that they would do by improved general health, is incalculable.

We think that we are right when we say that man should not only be intellectually the superior over the brute creation, but that as an animal,

he should be the first; and this is only to be obtained by exercise, fresh air, and cleanliness. We wish sincerely to see the American a splendid specimen of physical development, and this is to be impressed on the American mind more strongly than it has ever yet been. In some measure we look to the public schools to start the movement, by affording the pupils every facility for the exercise of their bodies as well as minds. The instructors of the young must learn the laws of hygiene as well as logic, and teach gymnastics in conjunction with the Latin or French grammar. If they will but do this, it will be a grand step towards giving the children better ability to think and study, by being the possessors of healthy bodies, and it will much aid physical development in America.—*Scientific American*.

MISCELLANEOUS.

THE UNIVERSITY OF BERLIN, Prussia, has a staff of one hundred and fifty professors; and the number of students in attendance frequently exceeds four thousand.

LIGHTNING.—Thunder is said to be caused by the passage of electricity. If the air in the clouds has more electricity the "stroke" comes from above; if, however, the air on the surface is fuller of electricity, then the stroke is upwards. This is the reason, in many cases, why men and animals are killed by lightning in the open fields. There is more danger in sitting at an open window, than when the window is closed; as glass repels lightning. "Lightning or electricity," says Hall in his "Journal of Health," "has a love, so to speak, for metals—has an affinity for them, or seeks for them; hence the loss of iron, or steel, or other metals you have about your person during a thunder storm in summer the sorer you are."

LIVERPOOL, England, in 1857 exported to the value of £55,000,000; tonnage of vessels owned in this port in the same year was 636,022 tons,—being 76,882 tons greater than that of London; there entered and cleared 9 000,000 tons; of the 212,875 British emigrants in that year, nearly 156,000 sailed from Liverpool. The docks of Liverpool extend for seven miles along the edge of the water, they cover an area of 400 acres. The sea along one side of the Mersy, by shipping in the docks is protected from wind and storm, is one of the greatest works of any age; its length is upwards of five miles, average thickness eleven feet, and its average height from the foundations, forty feet.

SQUARING THE CIRCLE.—The following, from the New York *Observer*, is one mode of "squaring the circle," a practical, if not a theoretical solution of a problem which has defied the sagacity of philosophers for many ages.