

The condition of this squaring is that every line, horizontal and vertical shall be a known word.

C I R C L E
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WHAT IS NEEDED.—The following extract from an address on hygiene, delivered by Dr. Hamilton, to the graduates of the Buffalo College, is well worthy of a careful perusal:—

"We need for our dwellings more ventilation and less heat; we need more out door exercise, more sunlight, more manly, athletic sports; we need more amusements, more frolic, and noisy, boisterous mirth. Our infants need better nourishment than colourless mothers can ever furnish, purer milk than distilleries can manufacture; our children need more romping, and less study. Our old men more quiet and earlier relaxations from the labors of life. All men, both young and old, need less medicine and more good counsel. Our cities need cleansing, paving and draining. The Asiatic cholera, the yellow fever, the plague, and many other fearful epidemics are called the opprobria of our art, and our fellow citizens upbraid us with the feebleness and inefficiency of our resources in staying their fatal progress. When will they learn that although we do not fail to cure these maladies, the more precious secret of prevention is in our possession, and has been for these many years?"

TOMATA AS AN ARTICLE OF FOOD.—Professor Bennett, of Edinburgh, has drawn attention to the value of this fruit, partly as an article of daily use upon the table, and particularly as a means of relieving the loaded liver. In the latter case the tomato becomes a valuable remedy in some forms of dyspepsia, and the professor believes that before long a chemical product of

the tomato will become a general substitute for mercurial preparations in treating such complaints. The taste for the tomato is an acquired one; but when it is properly served, the fruit is highly relished, either with animal food or taken alone.

OILING HARNESS LEATHER.—Oils, when applied to dry leather, invariably injure it, and if to leather containing too much water, the oil cannot enter. Wet the harness over night, cover it with a blanket, and in the morning it will be damp and supple; then apply neatsfoot oil in small quantities, and with so much elbow grease as will insure its disseminating itself throughout the leather. A soft pliant harness is easy to handle, and lasts longer than a neglected one. Never use vegetable oils on leather, and among the animal oils, neatsfoot is the best.

POPULATION, ETC.—The population of Russia is 65,331,568; that of the British Empire 161,501,034; and that of the United States (1850) 23,363,327. Area of Russia 7,906,397 square miles; the British Empire contains 7,568,821 square miles; United States 2,963,460.

THE TELESCOPE.—By Lord Ross's telescope objects 100 feet high can be distinctly seen on the moon. It is just 250 years since Galileo's memorable discovery of the telescope took place. Being at Venice his house was thronged with visitors to see the curiosities and wonderful properties of his instrument.

The tallest chimney in the world is being erected in Glasgow, Scotland, which will be 460 feet high.

INTEREST.—To find the interest of £130 for one month at 6 per cent. Rule—add to the units figure one fifth of itself, and call the result pence, the other figures will express shillings, thus—£13 is 13s.

What is the interest of £55 for two