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The young man's book of amusement

Halifax, 1848

Two numbers, the one even and the other odd, [...]

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of the bottle, and rise in the form of a small column to the surface of the water; while at the same time, the water entering the bottle, will supply the place of the wine. The reason of this is, that as water is specifically heavier than wine, it must hold the lower place, while the other rises to the top.

An effect equally pleasing will be produced, if the bottle be filled with water, and the vessel with wine.

Two numbers, the one even and the other odd, being propounded unto two persons, to the end they may (out of your sight), severally chuse one of those numbers; to discover which of those numbers each person shall have chosen.

Suppose you have propounded unto *Peter*, and *John* two numbers, the one even and the other odd, as ten and nine, and that each of those persons is to chuse one of the said numbers unknown to you. Now to discover which number each person shall have chosen, you must take two numbers, the one even and the other odd, as two and three? then bid *Peter* multiply that number which he shall have chosen by two, and cause *John* to multiply that number which he shall have chosen by three; that done, bid them add the two products together, and let them make known the sum to you, or else demand of them whether the said sum be even or odd, or by any other way more secret, endeavour to discover it, by bidding them to take the half of the said sum, for by knowing whether

the said sum be even or odd, you do obtain the principal end to be aimed at, because if the said sum be an even number, then infallibly he that multiplied his number by your odd number, (to wit, by three) did chuse the even number, (to wit, ten); but if the said sum happen to be an odd number, then he whom you caused to multiply his number by your odd number, (to wit, by three,) did infallibly chuse the odd number, (to wit, nine).

The Globular Fountain.

Make a hollow globe, of copper or lead, and of a size adapted to the quantity of water that comes from a pipe (hereafter mentioned) to which it is to be fixed, and which may be fastened to any kind of pump; provided it be so constructed, that the water shall have no other means of escape than through the pipe.—Pierce a number of small holes through the globe, that all tend towards its centre, and annex it to the pipe that communicates with the pump. The water that comes from the pump, rushing with violence into the globe, will be forced out at the holes, and form a very pleasing sphere of water.

The Water Sun.

Provide two portions of a hollow sphere, that are very shallow; join them together in such a manner

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