

Four then were drawn by ten :  
Read my riddle ye can't,  
However much ye try.

v.

Black within, and red without,  
Four corners round about.

vi.

As I was going o'er yon moor of moss,  
I met a man on a grey horse ;  
He whipped and he wail'd,  
I ask'd him what he ail'd ;  
He said he was going to his father's fune-  
ral,  
Who died seven years before he was born.

vii.

A house full, a yard full,  
And ye can't catch a bowl full.

viii.

The calf, the goose, the bee,  
The world is ruled by these three.

ix.

Banks full, braes full,  
Though ye gather all day  
Ye'll not gather your hands full.

x.

The land was white  
The seed was black.  
It will take a good scholar  
To riddle me that.

### Parlour Amusements.

#### TO MAKE A BALL CHANGE COLOURS.

You open a box, and show the company a ball of ivory, which fits into it; then you put the ball into the box, and the cover on. You then take the cover off, and the ball. You put the cover on, and when you show the ball again, it is black, &c.

#### EXPLANATION.

A box must be made for this purpose, with three or four covers ingeniously wrought, and the inside ones of different colours. After the ball is exhibited by a secret spring, you attach one of the covers to the ball which renders it of a different colour; in like manner another, and so on till all the secret covers are disposed of. These covers, which serve as shells for the ball, must be manufactured very thin, ingeniously turned, and nicely fitted for the purpose.

#### TO CAUSE FIRE TO BURN UNDER WATER.

You call for a pail of water, and having a certain composition in your hand, which you apply fire to, you throw it into the water, and, to the great astonishment of the company, it will burn under the water till quite spent.

#### EXPLANATION.

For the performance of this curious trick, by which many a wager has been won, take three ounces of powder, one ounce of saltpetre, and three ounces of sulphur

vivum, beat and mix them well together; then fill a pasteboard or paper mould with the composition, and it will burn till entirely consumed, under the water.

#### TO CAUSE A STONE TO BE IN PERPETUAL MOTION.

This requires some hours' preparation, as may be seen by the explanation. When the necessary pains have been taken, the stone appears in a bottle continually moving.

#### EXPLANATION.

Put very small fillings of iron into aquafortis, and let them remain there until the water has taken off the iron requisite, which will happen in seven or eight hours. Then take the water, and put it into a phial an inch wide, with a large mouth, and put in a store of *lapis calaminaris*, and stop it up close; the stone will then keep in perpetual motion.

#### A BRILLIANT METALLIC TREE.

Reduce to powder three-quarters of an ounce of sugar of lead; on this pour a decanter of water. Shake the mixture, and allow it to remain three days; take of the clear solution, rinse out the decanter, and then return it. Suspend a piece of zinc in the decanter, by means of thread or wire, to the stopper, so as just to be covered by the solution. Place it in a situation where it is not likely to be disturbed. The zinc will shortly become covered with a moss-like appearance, and substance of metallic lead, which will shoot forth in brilliant crystallization, bearing a resemblance to a tree or shrub. This experiment is much to be admired, producing a pretty room ornament, if suspended in a large round glass bottle, which will be much better in appearance than in a decanter. and will better show the beauty of the crystallization, in consequence of being made with thinner and more transparent glass.

#### PRECIPITATION OF SILVER IN A CRYSTALLIZED FORM.

Immerse phosphorus for a few days in a solution of nitrate of silver. The metal will be precipitated on the phosphorus in fine dendritic crystals.

### ANSWERS

#### TO PUZZLES FOR PASTIME IN LAST NO.

CHARADES.—1. Mist-rust. 2. Cod-ling.  
3. Ava-rice. 4. Tar-tar. 5. Pepper-corn.  
6. Maine Law. 7. Taverus.

ENIGMAS.—1. A Chair. 2. The letter U.  
3. A Card.

RIDDLES.—1. A wig. 2. The figure 8.  
3. Vague, ague. 4. Ague, Hague. 5. Both. 6. COCOA. 7. A bun-dance.

ARITHMETICAL QUESTION.—Worked 9½; played 2½ days.