

dogs in question are small and hairless, and enormously fat. They are fed solely on vegetable food, a regimen which imparts a rare delicacy to their flesh.

A GERMAN chemist named Lonsberg professes to have discovered that, by passing any kind of artificial light through a thin layer of alum or mica, these calorific rays are absorbed, while the illuminating power on the true light rays is undiminished, and becomes exceedingly mild and pleasant to the eye.

INDICATOR OF VITIATED AIR.—A solution of palladium chloride is so connected with a battery, that so long as no metal is precipitated, no current passes; but as soon as carbonic acid appears in the atmosphere, metallic palladium is precipitated, which establishes a current, and rings a bell to give warning of the presence of the noxious gas.

TO CLEAN BLACK CLOTH.—Dissolve one ounce of bicarbonate of ammonia in one quart of warm water. With this liquid rub the cloth, using a piece of flannel or black cloth for the purpose. After the application of this solution, clean the cloth well with clean water; dry and iron it, brushing the cloth from time to time in the direction of the fibre.

TABLE LINEN.—To make table linen stiff, it should be scarcely dried at all before folding down. If dried very much, and then damped down it will be soft. After lying a night in the fold, mangle and hang before a very hot fire, when it will dry stiff and rough. When perfectly aired mangle a second time, when it will be beautifully stiff and glossy like satin. No ironing is necessary, except for napkins, then the second mangling is not required.

SALVE FOR CHAPPED LIPS AND HANDS.—Take two ounces of white wax, one ounce of spermaceti, four ounces of oil of almonds, two ounces of honey, quarter of an ounce of essence of bergamot, or any other scent; melt the wax and spermaceti, then add the honey, and melt all together, and when hot add the almond oil by degrees, stirring it until cold. This is superior to glycerine for chapped hands, sunburns, or any roughness on the skin.

TAR AND BACON-FAT AS REMEDIES FOR CONSUMPTION.—The tar is used to medicate the air, and is prepared as follows: To one pound of tar add one ounce of common potash to deprive it of its pyroigneous acid; mix well and boil together in the open air for fifteen minutes; then keep it gently simmering in the room of the patient. The bacon-fat is cut in thin slices (raw bacon) and tacked on a bit of flannel and placed on the chest, the fat near the skin. Many cases of consumption are produced from either tape or round worms, which feed on the nutriment of the food taken, and so impoverish the blood.

BIRDS AND CHOLERA.—Can birds scent the cholera infection in the air? Certain well authenticated facts render it not improbable that they can. Recent European journals state that at Munich were several cases of cholera have occurred, the rooks and crows, which before flew about the steeples and through the trees of the public promenades, have all emigrated; and the same thing happened during the cholera seasons of 1836 and 1854. According to Sir Samuel W. Baker, the same phenomena occurred at Mauritius, where the martins, which exists in immense numbers the year round, wholly disappeared during the prevalence of the cholera.

HEATING APPARATUS FOR DOMESTIC PURPOSES.—A new form of heating apparatus, intended to warm comparatively small quantities of water at a time, has recently been patented by Mr. Strode. A vertical chimney is arranged over a set of Bunsen burners. This chimney consists of an inner and outer cylinder, and in the jacket thus formed a current of water is allowed to flow, taking up the heat as it goes from the heated surface of the inner cylinder. The water is admitted cold at the bottom, and discharged at the top heated. The invention is intended for use in positions where a complete heating apparatus for hot water supply with cisterns, etc., cannot be constructed.

OUR PUZZLER.

104. DOUBLE ACROSTIC.

The primals down, and finals up,
Two British queens will show;
The name of one, at least, I'm sure
You very well do know.

1. This on the Danube you will find,
And of a congress does remind.
2. The novel that you here have got,
Was written by Sir Walter Scott.
3. He of King Arthur's kings was one;
As true as his wife there was none.
4. The brother of a king does show,
And whom he tried to overthrow.
5. This Flemish port did long sustain
A siege against the arms of Spain.
6. This did Napoleon invade,
And for it very dearly paid.
7. The name of this old man is seen
In Spenser's famous "Faery Queen."
8. Our grammars very clearly teach
That 'tis one of the parts of speech.

105. SQUARE WORDS.

1. A general; an entertainment; an animal; produced; a planet.
2. A general; one who rides; to worship; pluck; vegetable products.
3. A marshal; proprietor; to join; oblivion; plants.

106. CHARADE.

My primals is a name that strikes
Like music on the ear;
A pity 'tis that it should be
A name for some to fear.

Each farmer in our native land
My second well will know;
The want of it, at certain times,
Oft causes bitter woe.

My total's influence is great
To lead a youthful life
To tread the paths of joy and peace,
Or those of woe and strife.

107. ANAGRAMS.

1. Worn by that ruler; 2. A robber, can hunt;
3. Line a bird in James; 4. No rony at the poll;
5. Neil try win ma's zeal; 6. Hurry ask the Celt;
7. Locks Willie in; 8. Dear Lenny's font;
9. A hill warrior isn't womanish; 10. Hens cackled, sir; 11. Why was the glen won, Lord Rolf;
12. Then cheese-barrow terms.

108. DOUBLE ACROSTIC.

You could not have a better wish
Than that you'er may be,
What in my primals, when read down,
Or finals, up, you see.

1. Whate'er may be your lot in life,
May you be first, and free from strife,
2. If in a country place you live,
You cannot be what this will give.
3. Though third here you this explore,
Yet 'tis a number more than four.
4. With colored files we often wish
To lure and catch this little fish.
5. Another number this will state;
'Tis less than twelve, but more than eight.
6. This plant is in your garden found;
But it must, first, be twisted round.
7. My final then to you will name
A pleasant and a homely game.

109. ARITHMETICAL QUESTION.

A and B are a certain distance apart. A train leaves A at noon, and travels 48 miles per hour, and meets another train, which left B at 12.45, and travels 32 miles per hour, at $\frac{5}{17}$ of the distance from A to B. Find the distance from A to B.

110. CHARADE.

The virgin first, when winter reigns around,
And poor red robin hops from door to door,
In showers fall upon the frosted ground.
At morn, if woods and meadows we explore,
The lark from grassy haunt begins to soar,
And off her wing the dewy last she shakes.
The total is a flower that's seen before
The gentle spring to buds and verdure wakes,
And 'fore are gone the days of ice and frozen flakes.

111. ANAGRAMS OF SINGERS.

1. I love Mr. Dales, Emma; 2. My care is great, Sam G.; 3. I try half corn; 4. From Fred S., dear Maud; 5. I don't say old Ben, mama; 6. Would Mr. Sharp, a; 7. Severe Miss Mr.

112. SIX-LETTER SQUARE WORD.

1. The primal of my square will give
One of the feather'd tribe.
2. A word that means contrary quite
My second will describe.
3. My third is simply to repeat,
What you have heard before.
4. A kind of three-legged iron stand
In fourth you will explore.
5. Transpose my fifth, and it will name
A cunning little thing.
6. Now, to complete, I need but say
My final has a sting.

113. LOGOGRIPH.

If of a part of food you change the head,
What means to peruse you'll have instead;
Now, if this word you will transpose,
What is not cheap it will disclose;
Now, if to this you give a touch,
What means to defy you know this much.

ANSWERS.

86. DOUBLE ACROSTIC.—Flowers, thus: 1.

FlagstaF; 2. LaureL; 3. OlymPO; 4. WillOW; 5. EdIE; 6. RiveR; 7. SicknesS.

87. ARITHMETICAL QUESTION.—

The first share = $\frac{1}{3 \times 4 \times 5} = \frac{1}{60}$ of the whole
 $\therefore \frac{1}{3}$ of $\frac{1}{60} = \frac{1}{180}$ of the whole.
Similarly, the second share = $\frac{1}{12}$ of the whole.
 $\therefore \frac{1}{4}$ of $\frac{1}{12} = \frac{1}{48}$ of the whole.

$$\frac{1}{3} - \left(\frac{1}{3} \times \frac{1}{12} \right) = \text{£}51 \text{ 0s. 3d.}$$

$$\frac{1}{24} \text{ of the whole sum} = \text{£}51 \text{ 0s. 3d.}$$

$$\therefore \text{whole sum} = \text{£}1,224 \text{ 6s.}$$

This, divided in the ratio of 3, 4, and 5,

$$\begin{aligned} &= \text{share of first} = \text{£}308 \text{ 1s. 6d.} \\ &= \text{second} = \text{£}408 \text{ 2s. 0d.} \\ &= \text{third} = \text{£}510 \text{ 2s. 6d.} \end{aligned} \text{ Ans.}$$

88. ENIGMA.—Wind.

89. DOUBLE ARITHMORUM.—James Sant, Peter Lely, thus: JalaP(a), AmiranLE, Montfort, EllesmereE, StavangerE, Stavropol, AriapE, NeuchatelE, TrichinopolY.

90. HIDDEN PROVERB.—'Tis an ill wind that blows no one any good.

91. SQUARE WORDS.—

1.	2.	3.	4.
RASP	RASP	KALE	PLUM
ALOE	ABLE	ABEL	LURE
SOFA	SLOE	LEEK	URGE
PEAR	PEEP	ELKS	MEET

92. CHARADE.—Gooseberry.

93. DOUBLE ACROSTIC.—Garibaldi, Kosciusko, thus: 1. GreenockK; 2. AjaccioO; 3. RosS; 4. IsaacC; 5. BornoU; 6. AlferI; 7. LimogesS; 8. DecK; 9. IachimO.

94. ARITHMETICAL QUESTION.—

$$72 \times 60 = 4320, \text{ area of window.}$$

$$\frac{4320}{30} = \sqrt{144} = 12.$$

$$\sqrt{12} = \sqrt{11.25} = 11.75, \text{ allowance for framework.}$$

$$\frac{11.25}{4} = 2.8125 \text{ diameter of the circular space.}$$

$$2.8125 \times 7854 \times 30 = 186,375 \text{ of circular space.}$$

$$4320 - 186,375 \times 11.75 = 4121.375 \text{ inches, or } 28.624 \text{ feet, the area of the glass.}$$

95. ENIGMA.—Diamond.

96. CONUNDRUMS.—1. Because it's pain (Spain); 2. America (a merry cur); 2. Because it's an isle (anile).

97. DOUBLE ACROSTIC.—Flaxman, Chantry, thus: 1. FontenoY; 2. LeaR; 3. AlicanT; 4. XenophonN; 5. MeccaA; 6. AsapH; 7. NardaC.

HUMOROUS SCRAPS.

SOMETHING likely to end in smoke—The report of a gun.

WHICH is the most celestial part of the British Empire? The Isle of Skye.

WHAT relation is that child to its father who is not its father's own son? His daughter.

THE REASON.—An instructor asked a girl why beer in French was feminine. She replied that it was probably owing to the fact that the boys liked it so well.

"WHAT'S the matter there, Alice? Don't your shoes fit?" "No papa, they don't fit me at all," replied the little one; "why they don't even squeak when I go out to walk."

CONCLUSIVE.—"How many deaths last night?" inquired a hospital physician of a nurse.—"None," was the answer.—"Why, I ordered medicine for ten."—"Yes, but one wouldn't take it."

A FREEZER.—Said a pompous husband, whose wife had stolen up behind and given him a kiss, "Madam, I consider such an act indecorous"—"Excuse me," said the wife, "I didn't know it was you."

THE CAUSE PROSPERS.—A newly established provincial paper, having obtained a new subscriber, records the startling fact in a half-column article, headed, "Still another! Our cause endorsed by the people!"

A CITIZEN of Delta, Iowa, writes to the Postmaster-General: "If you don't send some one to run this 'ere post-office purty soon it'll be throwd in the river, for I'm going off on a bear-hunt and can't fool any more."

"DICK," said a certain lawyer to a countryman who had been considered more fool than knave, "what would you call the two greatest curiosities in the world?" "Why," replied Dick "an honest lawyer and a river on fire."

"How is it, my dear, that you have never kindled a flame in the bosom of a man?" said an old lady to her pretty niece, who was portionless. "The reason, aunt," replied the young lady, "is, as you well know, that I am not a good match."

ABSENT.—George, a very absent-minded man, went the other day to call upon a friend at his office, and seeing his bookkeeper, asked, "is Mr. — engaged?"—The bookkeeper replied, "Alas! he died last night."—"Oh, never mind,"

said George. "I only want to see him for a minute."

"A YOUNG lady of Lyons, Iowa, recently said: "Some men are always talking about patronizing their own town—always harping on that duty—and yet they go abroad to get married, while here we all stand waiting! I do hope that some of the men who marry Eastern women will get cheated!"

AN INVISIBLE ANTAGONIST.—A Gascon officer who was present at a skirmish, fired a pistol at one of the enemy, and afterwards boasted that he had killed him. "That can't be," said another, "for not a man was left on the field." "Pooh!" said the Gascon; "don't you see?—I must have blown him to atoms."

CARELESS TRICK.—A paper, in telling how a little boy got drowned while in swimming, says that after wading about for some time he "stepped off over his head." Now that was a careless thing to do. Little boys should be very careful not to step over their heads, for even if they do not get drowned that may break a leg.

AN IRISH glazier was putting a pane of glass into a window, when a groom, who was standing by, began joking him, telling him to mind and put in plenty of putty. The Irishman bore the banter for some time, but at last silenced his tormentor with—"Arrah, now, he off wid ye, or else I'll put a pane in your head without any putty."

LACONIC.—One of the most laconic men we have heard of is an Aberdeen farmer, upon whom a young man, wishing to marry his daughter, called one day. The farmer happened to be ploughing in the field. The hesitating lover, after running parallel with the furrow several times round the field, and essaying with all his courage to utter the important question, at last forced out a prefatory half-volumeful of sentences, ending with, "I should like to marry your daughter."—The farmer replied, "Take her, and use her well. Whoa, haw-buck!"

A CAPITAL story comes from Vienna à propos of Liszt's last performances in that city. It is said that the great pianist found himself in the company of a number of ladies, who begged him in hyperbolic terms to procure for them "the ecstasies, the artistic raptures, which his magnificent talent inevitably produces." He obligingly seated himself at the piano and played. When he had finished some of his admirers had fainted. "Well," said Liszt, "I played wrong notes all through, intentionally—so badly, indeed, that I should have been turned out of doors at any elementary school of music!"

LORD MACAULAY, passing one day through the Seven Dials, bought a handful of ballads from some street singers who were bawling out their contents to a gaping audience. Proceeding on his way home, he was astonished to find himself followed by half a score of urchins, their faces beaming with expectation.

"Now then, my lads, what is it?" said he. "Oh, that's a good 'un," replied one of the boys, "after we've come all this way!" "But what are you waiting for?" asked the historian, astonished at the lad's familiarity. "Waiting for! Why, ain't you going to sing, guv'ner?"

A GLORIOUS OPPORTUNITY LOST.—They tell about a man who refused to get up and light the fire, and as his wife said she wouldn't, they remained in bed thirty-seven hours before the matter was settled. Our sympathies are, of course, with the woman, and we may be permitted to entertain a regret that it did not occur to her to perform a great deed of self-sacrifice upon this occasion. How noble and beautiful would have been the example set her husband—how touchingly would she have shown her wifely devotion—how keenly would she have made him feel his meanness—if she had risen and made a fire under the bed, in order to rout him out all of a sudden! A woman who throws away such a chance as that is false to her duty and to her sex.

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