

PROPOSITION---Tell which one of the players shoulp pay for the game.



HERE ARE PUZZLES or problems connected with almost all kinds of games, either in the play itself or in the

manner of scoring a victory. Now, it is safe to assume that every one knows more or less about fifteen- ment. That the problem is not so ball pool. Nevertheless, here is a little problem which does not call for a practical demonstration with ferred to the competitors in a rethe cue, so our puzzlists will have cent championship pool tournament just as good a chance for the prizes where it was found that no two of offered for the answers as the most the players agreed upon the same skillful experts.

There are fifteen balls to be pock- for the game, and why. eted, and according to custom, the one who pockets the least number of balls must pay for the game.

Well, three players were starting a game the other day, and No. 1 who was an expert, agreed to pocket zler's sanctum is the following, as many balls as players No. 2 and which, although not intended as a No. 3 both together. Just as they were going to start a fourth man came in and joined them, but, as he we are expected to know: "Supwas a stranger, he did not receive pose that three generations of fathany handicap odds and played on ers and sons, with the names of even terms with each of the other all three alike, were residing to- make a noise whenever they are three players.

balls which each man made during would you address it?' the play, and a discussion then ensued as to who was the loser.

The puzzle is to tell which one of the players should pay for the game according to the terms of the agreesimple as it looks may be inferred from the fact of its having been reanswer. Tell which one should pay

Notes and Queries.

Among the curious questions which find their way into the puzpuzzle, is worth a passing notice as illustrating some of the queer things gether, and you wished to send a told.

The rack shows the number of letter to the third generation, how

Answer: This problem should not cause sleepless nights or needless worry, as a letter addressed to 'John Smith the Youngest'' would meet the requirements of society and reach its proper destination.

But supposing the communication related to the following business transaction, then the problem would require more careful consideration. The writer had seen that invaluable article known as the "tailor's goose," and knowing that Mr. John Smith manufactured the same, desired to purchase two of them. How should he write his Gooses."

Or would it be considered a "give away'' to dodge the issue by saying, "I want a Tailor's Goose, but you may as well send me two of them."

Why are bells the most obedient of inanimate things? Because they



puzzle from the Lone Star State, introducing a famous old problem and a bit of

American history with which many of our readers are doubtless familiar. Texas was practically settled, or rather overrun, by the Americans as far back as 1830, but it was not until the end of fifteen years of dians that it was admitted into the Union, and it was shortly after that date that the famous squatter law was introduced which gave a settler free all the land he would from the time of taking possession. Some of the early settlers had pretty hard times with the Indians, greasers and bears, but the descendants of such as managed to "stick it out," as they termed it, now rank among the great cattle kings of the cattle. world, and, according to an official report just issued during the past month, it will soon develop that some of the most wealthy landed proprietors of the world will be found to be Indians. Among the owners would not be appalled by grandiloquently described by Archi- in his great cattle ranch?

Who may marry many a wife and still be single all his life? A ERE IS A PRETTY medes, may be mentioned the comfortable ranch of Texas Pete, a halfbreed Indian, who was among the clergyman. first to take up land under the Why is a plum-pudding like the ocean? Because it contains many squetter act which gave him the ownership of all the land he could currants. inclose or cultivate within one year. Of what trade is a minister at a According to his own story, and wedding? A joiner. What three misses are those he is still a hale and hearty man, although well beyond the three whose days are always unlucky? score years and ten allotment, he Mis-chance, mis-fortune and misfighting with the Mexicans and In- says his wife was the better man of hap. What miss is always making the two in staking out their claim. The understanding, as he explains blunders? Mistake. it, was that they were to get free What misses are of a very jealous all the land they could inclose with tempers? Mis-give and mis.trust. a three-rail fence within twelve Why is an umbrella a paradox? inclose or cultivate within a year months, so for one whole year he Because it is best when used up. and his wife were putting up this When does the shoemaker disfence, which inclosed an immense play wonderful powers of endurtract of land, which they afterward ance? When he holds on to the cultivated or turned into great last. pasture fields which eventually be-What part of the face resembles came filled with flocks of sheep and a schoolmaster? The eyelid, because it always has a pupil under From this story we deduct the the lash.

following curious problem: Let us suppose that the tract of land is exactly square and is inclosed by a three-rail fence, as shown in the sketch, and that each rail is exgreat ranches of the West, whose actly twelve feet long. Now, then supposing that there are just as the size of the flocks of the "white many acres inclosed as there are bulls and the dappled bulls which rails in the entire fence. How many

PROPOSITION --- How can you enclose as many acres of land as there are twelve-foot rails to a fence?

At what time of life may a man be said to belong so the vegetble kingdom? When long experience has made him sage.

Which is she gayest letter in the alphabet? U, because it is always in fun.

When is a very angry man like a clock fifty-nine minutes past grazed on the plains of Sicily" as acres of land has Texas Pete got twelve? When he is just going to strike one.



PROPOSITION-Can you restore the missing numbers?



of the heiroglyphic Mormon Rock. Mormonism originated only so far back as 1830, so ands of persons qualified to tell all about them, unless, as some claim,

teries. The Mormons migrated in 1838 from Kirtland, O., to Nauvoo, the "City of Beauty," in Illinois, and to Salt Lake in 1848. When they left Nauvoo they boasted that their line of march would be twentyfour miles long, and was to be headed by a printing press to issue on Mormon Rock were supposed to give the number of pilgrims to ing numbers has been suggested. each division.

they pertain to the forbidden mys-

The figures look like a sum in division engraved upon a sandstone cause they are stubborn things.

NCE AGAIN DISCUS- rock. Most of the numbers are sion has been revived illegible, but as some few are sharp concerning the meaning and clear it is to be assumed that the others were erased maliciously numbers engraven on or for a purpose. It is now claimed that either through accident or design the eight legible numbers furif these wheather beaten figures nish a key to the mystery, and that have anything to do with the Latter the whole is a sum in long division Day Saints there should be thous- which tells just how many pilgrims marched with each division, and incidentally gives a clue to the number of the prophet's matrimonial ventures.

It is a remarkable coincidence that the remaining numbers furnish a clue which easily solves a most interesting historical puzzle, for if you will write down the sum in long division, mixing stars with the legible, figures as shown, you should speedily be able to guess the the daily orders of the prophet. It numbers which have been erased was stated that they were divided so that the sum will prove. It up into numerous companies, each really looks as if there should be one headed by one of the prophet's scores of correct answers, and yet wives, and the mysterious figures so far as I am aware, but one satisfactory restoration of the miss-

Why are men like facts? Be-

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Why does a cat look on first one side and then another when she enters a room? Because she can't look on both sides at the same time.

Why is a widower like a young baby? Because it cries a great deal the first six months, looks around the second six months, and has hard work to get through his second summer.

Why is Philadelphia more subject to earthquakes than any other city? Because she is a Quaker

Why is a policeman on his beat like an Irishman rolling down a hill? Because he's patroling (Pat rolling).

If the alphabet were all invited out to supper, in what order would they come? They would all get there down to S, and the rest would come after T.

What would contain all the snuff in the world? No one nose (knows).

Why is a hound like a man with a bald head? Because he makes a litle hare (hair) go a long ways.

Why does a sculptor die a most horrible death? Because he makes faces and busts.

WING TO THE WIDEspread interest taken in a simple little Rail Road

Mixed With Dollars and Sense.



Pounds, Shillings and Pence we might term similar dissimilar



An advocate of our decimal system of currency refers to the wellunderstood feature that the removal of the decimal point does not change the value of the sumtotal of a given sum of money. For example, take \$90.16.2, which peditious way of passing the two represents ninety dollars, sixteen cents and two mills, and remove all the decimal points, and we have 90,162 mills, which does not change the value. When the writer, however, says that this cannot be done with English money he errs, and we invite him, as well as our army engine. It shows the primitive of puzzlists, to solve the following: Find a certain sum of English money, in pounds, shillings and pence, the value of which will not be changed by the removal of the

separating dots.

Dollars and Sense Puzzle. Here is another problem on what acres (achers).



PROPOSITION-How many times is it necessary to back the engiines to pass the two trains?



lines, which goes to prove that the Yankee dollars are just as smart as the English pounds. A puzzling financier discovered that any number of \pounds , s., d., reversed and sub-tracted will always produce 19s. 11d., or a multiple thereof. For example, take any amount below ten pounds, say:

9 8	6 6	8 9
1	19	11
8	6	2
2	6	8
	9 8 8 2	$ \begin{array}{c} 2 & 5. \\ 9 & 6 \\ 8 & 6 \\ 19 \\ 8 & 6 \\ 2 & 6 \end{array} $

5 19 6

which is six times 19s. 11d.

The interesting feature of the puzzle is the statement that "no one has been able to explain this curious relationship of pounds, shillings and pence!'

Cannot some of our clever puzzlists give the why and wherefore of this curious action of the English money. by showing by means of an example that the same phenomenon applies to our own. United States currency as well?

When does a dentist do the most work? When he extracts several



PROPOSITION ---- Tell how much money each of the men had when they commenced to play.



found the young folks to be particularly clever at all manner of tricks with coins,

so here is one which will please them, and at the same time make them more familiar with our United States money.

Three Milwaukee Dutchmen And the thing whose 8, 4, 1 played pinochle for two days without stopping, and when they ad-journed it was found that Claus had won just 8 cents and his brother Karl 22 cents. The problem which I want the young folks to find out is to prove just how much money the other fellow, Heindrichs, had when the play ended, for, as you see in the picture, each has just two coins, and those six coins, which are worth a total of just \$3, represent all the money belonging to the party. It is to be assumed that the money that they now have is all that they had when they started the play, so that the score for beer and pipe, which must be settled for, does not pertain to the problem.

How They Made Love in Puzzledom.

Here is a little story told in verse which should greatly interest our He from the editor got her name sweet young women puzzlists:

HAVE ALWAYS He dwelt in Massachusetts. An she in Muscatine; And they liked the "Puzle Corner" Of the Hogwash Magazine.

> She could reverse, eviscerate, And syncopate a word,

Add two-fifths of a famous man And find a common bird,

Was a flower, and 6, 7, 2,

11, 9, 6, 3, 14, 4 An antique city knew.

She used to send solutions in And signed them "Dimple Dew," While he successful answers gave As "Montfort Montague.

Cupid o'er Massachusetts flew, And over Muscatine,

And fed the flame that gradual grew With the Hogwash Magazine.

Until one day the editor

Offered a handsome pize For those who 'tween his 2d and 1st. His third could recognize.

"Dimple Dew" and "Montague" The sole replies sent in;

She got an oroide penhandle, He an Alaska pin.

Their names upon the "Roll of

Fame" Were printed side by side;

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"Oh, be my first," he wrote, "and I 'My second' and my third. And my sixteenth, and finally Henceforth shall deem absurd."

And she wrote by return of post: "Decapitate a glove,

Prefix an orb and add a sheep And let that tell my love.'

He packed his carpet 2, 1, 7, And went to Muscatine, They wedded there and took a file Of the Hogwash Magazine.

And spent a rapturous honeymoon

As blythe as joyous birds, And found their second was their first

And 8, 6, 3 and 4 was thirst And syncopating words.

Why is a buckwheat-cake like a caterpillar? Because it is a kind of grub that it makes the butter-fly.

What is that which has neither flesh nor bone, yet has four fingers and a thumb? A glove.

Barnum drove a ten-in-hand through New York city, and his horses had only twenty-four feet among them; how was that? They had twenty fore feet.

When is the sun a mechanic? When it is a Mason (May sun).

Of what trade are all the Presidents of the United States? Cabi-And he claimed her for his bride. net-makers.



PROPOSITION-Guess the names of the men and their wives.

preserved of trading cattle, poultry and farm products in odd numbers and quantities pertaining to each variety, such as to buy eggs by the score, some things by the dozen, others by bushel, peck or small measure, sugar by the three and half pounds, etc., etc.

This custom explains a curious old problem, published a couple of centuries ago in a unique collection of anecdotes of old Manhattan, with which many are familiar, but which for apparent lack of perspicuity has caused its meaning to

be questioned. In the language of this quaint old volume, it says: "There came three Dutchmen of my acquaintance to see me, who, being recently married, brought their wives with them. The men's names were Hendrick, Claas and Cornelius, the women's Geertring, Catrun and Anna, but I forgot the name of each man's wife. Well, they told me that they had been to market buymany hogs as they gave shillings for one hog. Hendrick bought 23 hogs more than Catrun, and Claas bought 11 more than Geertring. Likewise they said that each man laid out three guineas more than his

OME OF THE OLD is whether it is possible from this Dutch customs are yet description of their purchases to tell the names of each man's wife?" The inference was that the merry party got so befuddled over their beer and schnapps that they could not tell just who was who, so the worthy landlord finds himself compelled to sort out the different couples properly, by a process of extracting the square roots of the hogs; the squares of the money and the squares of the men and their

wives!

It is a curious problem which yields readily to experimental puzzle methods, so everyone is expected to solve it.



A guessing-match about cats is entertaining. Write out the fol-lowing list for each competitor without giving the answers, which ing hogs, each person buying as are here printed in parentheses, and the ones guessing the largest number wins:

An aspiring cat (catamount). A cat that can swim (catfish). A cat that can fly (cat-bird). A cat that will be a butterfly

wife. Now, what I want to know (caterpillar).

Guessing-Match

A cat's near relations (catkin).

A horned cat (cattle).

A cat that throws stones (catapult).

A tree cat (catalpa).

A water cat (cataract).

A cat that flavors the grapes (Catawba).

A cat that covers acres of grounds (cataclysm).

A subterranean cat (catacomb). A cat that, living, appears dead (catalepsy).

A cat prized as a gem (cat's-eye). A cat with a cold (catarrh).

A cat that is good to eat (catchup)

A cat that asks questions (catechism).

A library cat (catalogue).

A dangerous cat (catastrophe).

Why would it be impossible to starve in the desert of Sahara? Because of the sand which is (sandwiches) there.

How did the sandwiches get there? When Ham was sent there with his followers, who were bred (bread) and mustered there.

Why can you never expect a fisherman so be generous? Because his business makes him sell fish.

Why was a defeated candidate after the late election, like the earth? Because he was flattened at the poles.

PROPOSITION-Can you decipher the above mysterious communication?



ceived a puzzling communication from that boy of mine, who is studying at an agricultural college

in New Jersey, and the reading of the same has bothered me and Mandy considerably. He is making great progress he tells us, nevertheless, some of his reports are so mysterious and baffling that I am compelled to ask the assistance of our clever puzzlists to decipher this one. It strikes me as being what in the old days we used to term a rebus puzzle. which conceals some sort of a cryptogramic message or other, which can be guessed or read, if you are smart enough to master it.

He has such funny ways of writing everything that he keeps his freinds guessing all the time. He wrote Utica, UTK and Tennessee XEC, and Ohio he described as oO, although by transposing them to Oo he says it means owe nothing, all of which is mentioned to assist you in deciphering his cryptogramic letter, so, if you have XAIOOT you will find his XAIOOT meaning.

All of which is suggested by Dr. Whewell's letter to a young lady. "You O a O, but I O thee, 0, 0 no 0, but 0, 0 me, & O, let my O no O go, But give OO I O you so!"

In one of Dumas' narratives of noted criminals mention is made of a certain jeweler of the Rue Faubourg St. Honore, who during a long career of crime had robbed many ladies of distinction of their finest gems, either by substituting imitations or by changing the positions of the stones so that their abstractions would not be detected.

UT 00000000

SAM

To illustrate the clever rascal's mode of procedure let us look at the accompnying antique pin containing twenty-five diamonds. The lady who owned it had been accustomed to count down from the top and branch out from the centre, right, left or down so as to always count thirteen.

She had this particular piece of jewelry repaired by the noted criminal referred to, and remembered showing her method of counting the diamonds, which the polite jeweler again called her attention to when returning the same. For many years afterwards she continued to count them in the same way, always finding the thirteen to be correct as before, and yet two of the finest gems had been purloined! How did the ingenious thief conceal the crime?

Here is a sketch of the antique

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HAVE JUST RE- The Great Diamond Robbery. as it was when the jeweler received it:



Why is a man who never bets as bad as a gambler? Because he is no bettor (better).

Why is the root of the tongue like a dejected man? Because it's down in the mouth.

What is that which we often pin with the twenty-five diamonds return, but never borrow? Thanks.



at a point distant twenty-one inches, what is the depth of the lake?

low was a fine mathematician who often spoke about the advantage of clothing our mathematical problems in such attractive or congenial garb as would appeal to the fancy of the student in place of following the dry, technical language of the textbooks. He would connect the proposition with some familiar subject which best explains the problems to be solved.

A clever kindergarten illustration of a mathematical theorum leaves a clearer and more lasting impression upon the mind of a student than a whole term of uncongenial study.

He always held mathematics to be the most important branch of knowledge taught in our colleges and high schools, for the reason that it enters so largely into all of the arts and sciences, and yet the average student graduates with such an undying aversion to figures that he speedily dismisses all recollections of them from his mind.

The water lily problem is one of several introduced in Longfellow's

"Kavanah," written while occu-pying the Chair of Modern Languages in Harvard University, 1849. It is so simple that anyone, even

HE POET LONGFEL- without a knowledge of mathe- the figuring. Suppose, for exammatics or geometry, could solve it with a pair of compasses or rule, and yet it illustates an important geometrical truth in a never-to-be- eleventh month.) forgotten way, which many graduates have never grasped at all. I forget the exact language of the problem, as he described it to me personally during a discussion of the subject, but he told of a water lily growing in a lake; the flower was one span above the surface of the water, and when swayed by the breeze would touch the surface at a distance of two cubits, from which data it was desired to

compute the depth of the lake.

Now, let us suppose, as shown in the sketch, that the water lily is ten inches above the surface of the water, and that if it were pulled over to one side it would disappear under the surface at a point distant twenty-one inches from where it now stands, say just where the young lady is supposed to have drawn it, which shows that the two flowers are anchored to the same root at the bottom of the lake, what is the depth of the water?

This method is the easiest and whose age is to be discovered do of him.

PROPOSITION—If the water lily is ten inches above the water, and disappears under the surface

To Tell a Person's Age.

ple, a girl is 13 and was born in November, put down the number of the month. (November is the

Multiply by 2	2
Add 5	22 5
Multiply by 50	27 50
Add age (13)	1350 13
Subtract 365	1363 365
Add 115	998 115

1113

As she answers 113, tell her her age is 13 and November is her birth month. This test never fails up to 100. In computing ages under 10, a cipher will appear prefixed in the result, but no notice is taken of it.

Why would an owl be offended at your calling him a pheasant? Bebest one known. Let the person cause you would be making game