

PUZZLES and PASTIMES

PARTY MAGIC

A PACK of paper matches is equipment for what can be an impressive party trick. Pick up the pack and open it to show it contains nothing except paper matches. Then, close the pack and set it upright, that is, on end, on the table. The pack remains erect after you have taken your hand away.

Finally you pick up the pack once more, open it and show that it contains matches and nothing else.

Your friends will try to perform the balancing trick and fail unless they hit on the secret. It is:

After you show the matches in the pack, turn it toward you and bend one of the matches downward; as you hold the pack in your left hand, use the right forefinger to close it and the left hand will hide the bent match. With practically the same motion, the right hand closes the pack—but the single match protrudes. When you set the pack on the table, it stands there like an easel, for the extended match serves as a support.

As you pick up the pack again, open it with the right hand, and simultaneously push back the bent match with the left thumb. Thus you immediately show the pack with all the matches in their proper places.

Of course, this mystifies only if all the spectators are in front of you so that the supporting match is hidden from view.

CRYPTIC BIRDS

IF the alphabet was transposed, and A became D, B became F, C became H, etc., what six common birds would be represented by the following:

1. NVDZEEV.
2. LEFTC.
3. ORLQNR.
4. FZDHXFTLJ.
5. NODLZTCP.
6. NGDLLEV.

Answers: 1. Swallow, 2. Thrush, 3. Starling, 4. Robin, 5. Goldfinch, 6. Pigeon.

A Poet Said This Is Our Doorside Queen

POETIC tribute is paid by William Cullen Bryant in *An Invitation to the Country* to the subject of this dotograph. Make the picture appear by starting with a pencil at dot 1 and continuing an unbroken line from dot to dot consecutively. When they have reached dot 66 and completed the drawing, junior readers can enjoy coloring it appropriately with crayons or colored pencils. What is pictured?

Answer: A cow.

ANSWER

7	4	3	1
6	1	5	2
8	6	3	1
2	0	1	9
2	1	2	9

Solution of cross-number puzzle elsewhere in the page.

HE WENT RUMMAGING

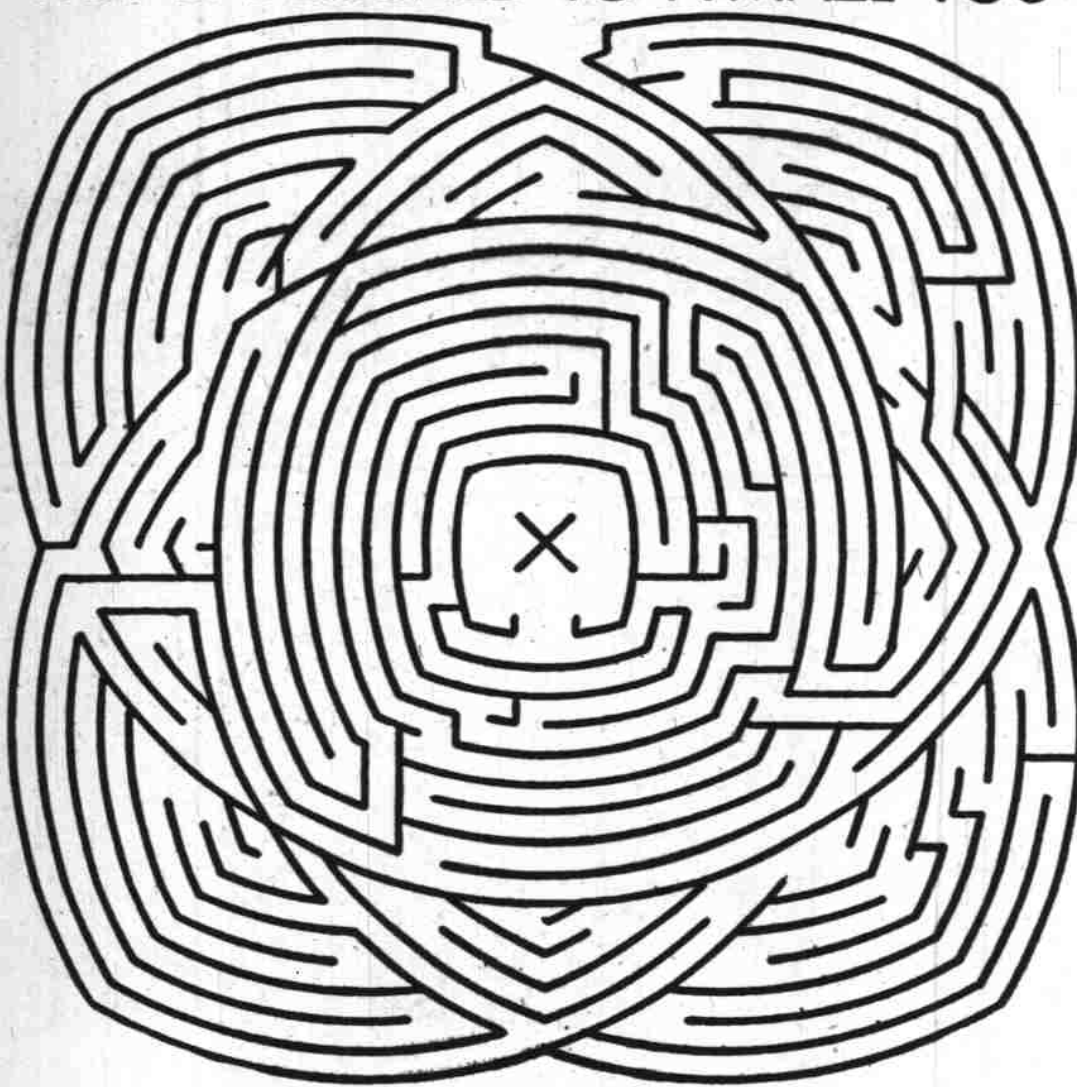
MR. DOAKES went to a "white elephant" rummage sale put on by children of the neighborhood to raise money for their club. They had cleaned out attics, and there were a number of oddities. He selected three small, inexpensive articles—a widget, a badget and a nudget.

The badget cost three times the widget and the nudget cost three times the badget.

If Mr. Doakes paid for all three articles with a bill and received only a coin in change, what did each article cost?

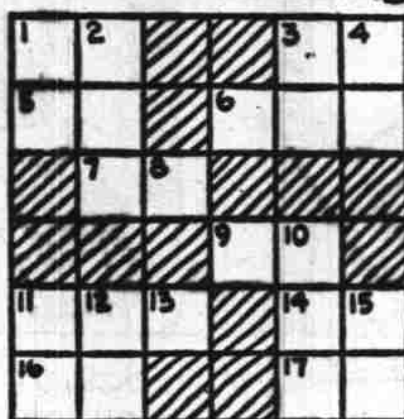
Answers: The widget cost 1 cent, the badget cost 3 cents, the nudget cost 9 cents. Total cost 13 cents. Paid with a 25-cent bill, received a 12-cent coin in change.

THIS IS DESIGNED TO AMAZE YOU



Can You Figure Out This?

By Jessie Smith



THIS is a cross-number. The diagram at left is to be filled in with figures to which clues are given below. If you get them correctly, they will interlock vertically and horizontally.

ACROSS

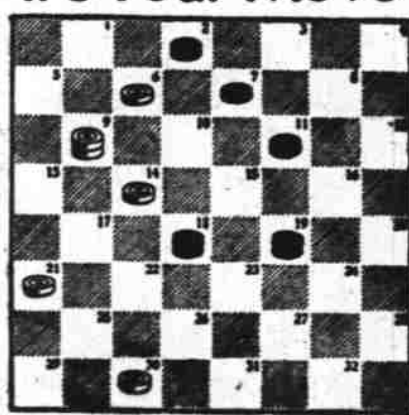
1. A man and his wife had 4 married daughters and each daughter had 4 children. How many in the whole family?
2. Your nose would be a foot if it were how many inches long?
3. Only number of two digits that begins with "e" and ends with "x".
4. A two-year-old century.
5. The first "teen" number.
6. 13 pigs, 22 ducks, 98 chickens, a bat that doesn't count, altogether equal how many chickens?
7. What the weak-willed, 206-pound woman weighed after one week of dieting.
8. $19 + 19 \times 19 + 19 - 19$ equals?
9. A floor number that you seldom will find in a skyscraper.
10. How many States in the Union before Arizona was admitted?

DOWN

1. The number of days in a lunar month.
2. How many trees did a ranger have if he planted 33 rows, 20 trees to a row, and had one left over?
3. The "count" in boxing.
4. Number of different letters used in: "The brown fox jumps over the lazy dog."
5. Riddle: How many peas in a pint?
6. The number of misspelled words in: "There is no smog in Whitewashington."
7. Adds even tot wo. Snow use!
8. A mathematical symbol which is also a type of food and a Greek letter.
9. Voting age in New York.
10. Next term in the series: 36, 25, 14.
11. You wrote a check June 12, 1950, No. 17, for \$81.40. How many times did you write the figure 1 on the check?
12. 86 times what, is 8342?

(Answers elsewhere in page.)

It's Your Move



THAT old-time game draughts or checkers is as fascinating as ever, as proved by the wide interest it has among youths today.

If you want to improve your game, try working out problems like this, contributed to this puzzle corner by Millard Hopper, national unrestricted champion. White, moving first and up the board, is to win in four moves. How? He must of course compel Black to make certain moves.

Those are Black kings on No. 18 and 19. White has only one king, on No. 9.

THERE'S only one door to this labyrinth designed by Julian Gerber. Whether you use it as an entrance or an exit, the probability is that you'll get lost inside, for it offers a challenging problem.

Suppose you start inside, at the central chamber (X). Take a pencil and draw a line to denote your route as you try to reach the exit. Can you make it without running into dead-ends and having to double back over any part of it?

GRAVE QUESTION

THE following inscription actually appears on a gravestone in the churchyard of Denham, Buckinghamshire, England. It contains an error. See how long it takes you to detect it.

Sacred to the memory of
Mr. EDWARD FOUNTAIN
Of This Parish, Who Died
On the 28th Oct. 1823;
AGED 66 YEARS

Also of
Mrs. SARAH FOUNTAIN
HIS WIDOW, WHO DIED
ON THE
33rd SEPTEMBER 1812
AGED 82 YEARS

Solution: It Mrs. Sarah Fountain died before her husband how could she be his widow?