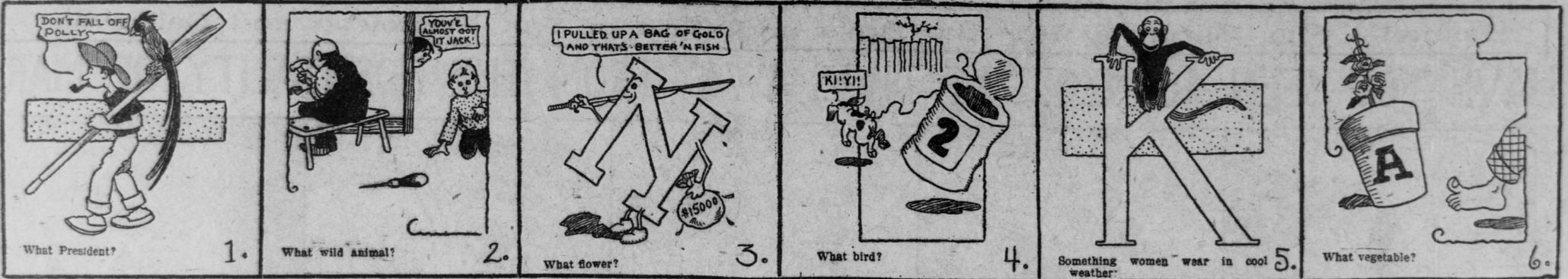


PUZZLE CONTEST! USE YOUR WITS! WIN A WATCH!



NOTWITHSTANDING the holiday week and the many diversions which always accompany the fourth of July, The Junior Call is delighted to see that the interest in the new puzzle contests fully equaled that displayed during the previous week, a great many correct answers having been received, as will be seen by the roll of honor which follows.

Six watches were awarded to six boys and girls, and the names of all others who sent in absolutely correct answers appear on the roll of honor. If your name is not on the roll of honor please study the answers and try to remember wherein you failed.

Six new puzzle pictures are shown at the top of this page. Send in your answers by numbers, thus: No. 1 is—No. 2 is—and so on. These puzzles are not very difficult, but they require a little thought. Answers must reach the editor of The Junior Call not later than Wednesday afternoon, and the sooner the better; send in yours as early as possible.

Six watches will be awarded to six correct answers showing greatest neatness and care. This contest is for juniors between the ages of 10 and 16 years. The younger juniors will find their contest on the fourth page.

The correct answers to the puzzle presented in last Saturday's Junior Call are as follows:

1—Curler, 2—tulip, 3—Brazil, 4—Cupid, 5—Pauline, 6—colored.

The juniors to whom prizes have been awarded for the correct solution of this puzzle are:

Helen Marie Jonas, 2017 Pine street, San Francisco.
Wilson Brown, 2747 Alcatraz avenue, Berkeley.
Mildred Grismore, 1181 East Twenty-second street, Oakland.
Kenneth R. Lynch, 1236 Sherman street, Alameda.
Frances Ryan, Redwood City.
Elbert Kennedy, Windsor.

Names of the other juniors who sent in the correct answers appear in the following roll of honor:

Dorothy Ash, 42 Eureka street, San Francisco.
Francis L. Sheerin, 2216 Geary street, San Francisco.
Ethel Graham, 2746 Filbert street, San Francisco.
Eleanor Jackson, 1446 Taylor street, San Francisco.
Ethel C. Wall, 1738 Alcatraz avenue, South Berkeley.
Hattie Lawson, 915 San Pablo avenue, Oakland.
Hilda J. Wall, 1235 Bonita avenue, Berkeley.
Zoe Grandi, Point Reyes station, California.
Charle Batchelder, P. O. box 45, Elmhurst, Alameda.
Miriam Mendyaboe, 1126 Union street, Alameda.
Dorothy Hamilton, 571 Thirty-ninth street, San Francisco.
Gertie Frey, 3835 Twenty-second street, San Francisco.
Helen Bergfried, 1923 Berryman street, Berkeley.
Clinton Duffy, San Quentin.
Anita Sheeran, 2157 Santa Clara avenue, Alameda.
Anna Sweeney, 1057 Sixty-second street, Oakland.
Chester Dunn, 70 East Twelfth street, Oakland.
Chester Kumble, P. O. box 475, Watsonville.
Margaret A. Wood, 821 Fell street, San Francisco.
Claire Ansel, 2604 Encinal avenue, Alameda.
Alma de Rosa, 3515 Twenty-second street, San Francisco.
Helen Leonard, 187 Douglass street, San Francisco.
L. E. Ferre, 3365 Maple avenue, Fruitvale.
Leak Martinelli, 229 East Third street, Watsonville.
Marjorie J. Stuart, 2442 Haste street, Berkeley.

PHOTOS OF PRIZE WINNERS

You see today on this page the portraits of six boys and six girls who have won watches in the contests conducted by The Junior Call. If you are one of the fortunate winners and have not already sent in your picture, please do so at once, as The Junior Call wishes to publish the pictures of all the successful contestants in the contests for the older juniors. A number of pictures will appear each week. Write your name and address plainly on the back of the picture, and state whether or not you wish it returned to you.

Francis Patrick Coughlin, 1708 Encinal avenue, Alameda.
John Kennedy, 139 Tilden street, Alameda.
Alan Uren, Oceanic.
Beata Laven, 1522 Dolores street, San Francisco.
Mary Isabel Taylor, 1501 South Grand avenue, Los Angeles.
Hubert Scher, Eccles.
Norma Brandon, LeGrand.
Florence Denny, 1182 Shotwell street, San Francisco.
Grace M. Renfro, 37 Carl street, San Francisco.
Clarence Quisenberry, R. F. D. No. 1, Modesto.
Elinor Brown, Casadero.
Dorothy E. Brunt, 971 Dolores street, San Francisco.
Hazel Merchant, Winters.
Rosie Leonetti, 3088 Twenty-fifth street, San Francisco.
Raymond Clark, 2405 Prospect street, Berkeley.
Alice Rae, 2611 Folsom street, San Francisco.
Wilma Bolles, Coram.
Willie D. Tulloch, 1729 San Antonio avenue, Alameda.
Edna H. Ross, 1806 Seventeenth street, Bakersfield.
Elva LeVin, Elmhurst.
John Feltz, San Francisco.
Rosie Cohl, 1676 Hayes street, San Francisco.
Willie Levy, Willow Branch.
Edna Vogel, 1540 Hayes street, San Francisco.
Arthur Poulin Jr., 1640 Hayes street, San Francisco.
Charles Waterbury, Corte Madera.
J. V. O'Connell, 1379 1/2 Fifth avenue, San Francisco.
Theodora Wollert, 44 Sharon street, San Francisco.
Ruth E. Dixon, 2107 1/2 Pine street, San Francisco.
Celia Borsini, Ingomar.
Marguerite Hayes, P. O. box 363, Santa Cruz.
Louie Appleton, 546 South Whitney street, San Jose.
Harry Maxwell, 3041 Tremont street, South Berkeley.
Anna Haightful, 380 Seventh street, San Francisco.
Marguerite Coburn, box 5, Los Gatos.
Althea Hillhouse, 1843 Bush street, San Francisco.
Ruth Hazen, box 895, Chico.
Alberta Collins, 501 Lyon street, San Francisco.
Mildred Ayres, 216 Eleventh avenue, Richmond district, San Francisco.

Mabel Weeks, Modesto.
Sophie Englund, Mount Eden.
Kathryn M. Tuttle, box 44, St. Helena.
Lyman W. Trumbull, Columbia.
Lawrence Holland, Hillcrest road, Claremont park, Berkeley.
Helen D. Quigley, San Lorenzo.
Hazel Korter, 85 Noe street, San Francisco.
Hazel Penn, 125 B street, San Francisco.
Mabel Hansen, 402 Tilton avenue, San Mateo.
Donald McKinnon, Dixon.
Euel Eckert, Rio Vista.
Hazel Tomblinson, Guerneville.
Marie Rivolta, 1533 Sanchez street, San Francisco.
Raymond Whyers, Lodi.
Hubert Hansen, Angels Camp.
Hall S. Schrader, Hall lodge, Wrights, R. F. D. 27, box 7.
Bernie M. Swinerton, San Louis Obispo.
Elizabeth Hoyt, Birds Landing.
Vera Higbee, Lompoc.
Richard C. Hoyt, Birds landing.
B. Sorenson, Warm Springs.
Edwin Russell, R. F. D. box 72, Santa Rosa.
Dollie Castle, 16 West G street.
Byron Nan Kerwin, Port Baker.
Morton Johnston, Glen Ellen.
Glady's Chichester, San Pablo.
Selma McGrath, 326 H street, San Mateo.
Keith Kelsey, 3035 Ellis street, Berkeley.
Emma Mueller, San Mateo.
Annie Slater, 1629 Tonquin street, Harbor View, San Francisco.
Gertrude Murray, 331 Bayview street, San Rafael.
Evelyn Murray, 331 Bayview street, San Rafael.
Marie Maury, 1160 O'Farrell street, San Francisco.
Evangeline Stewart, 3520 Telegraph avenue, Oakland.
Florence Miller, 2624 Santa Clara avenue, Alameda.
Edwina Salcedo, Point Reyes station.
Dorothy Arnold, San Mateo.
Hattie Schultdt, box 97, San Mateo.
Robert Emory, Ukiah.
D. B. Johnson, Occidental.
Erna C. Stein, 1724 K street, Eureka.
Marion Stewart, 1407 Seventeenth street, Pacific Grove.
Norman Egilbert, 519 West street, Redding.
Charles Fitzell, 1331 M street, Eureka.
Henry J. Stump, Bloomfield.



Helen Marie Jonas, 2017 Pine street, San Francisco.
Wilson Brown, 2747 Alcatraz avenue, Berkeley.
Mildred Grismore, 1181 East Twenty-second street, Oakland.
Kenneth R. Lynch, 1236 Sherman street, Alameda.
Frances Ryan, Redwood City.
Elbert Kennedy, Windsor.

Bernice C. Browne, Santa Clara.
Glady's Wheeler, box 151, Mill Valley.
Frank Henderson, San Anselmo.
Janet Courreges, 254 Buena Vista avenue, San Francisco.
Margaret Craig, Woodland.
Gregory Harrier, 6457 Benvenue avenue, Oakland.
W. Earle Wohler, 3376 Twenty-third street, San Francisco.
Fred McDonald, 2622 Regent street, Berkeley.
Marguerite Shipman, box 27, Auburn.
Kathleen Sheehy, 1748 Church street, San Francisco.
Norah Murphy, Pleasanton, box 12.
Cecilia Liguori, San Francisco.
Edith Fry, 54 Iowa street, San Francisco.
Frank Baldwin, 1701 South Thirtieth street, San Francisco.
Grace B. Pisk, Gonzales.
Weasley Marshall, Chico, Nottleman building.
Sophie Adams, 3177 California street, San Francisco.
Helene Kosby, 1619 Forty-seventh avenue, San Francisco.
Dorothy Hare, 1675 Forty-eighth avenue, San Francisco.
William Abers, 245 Elsie street, San Francisco.
Edith Forrester, 4228 Terrace street, Oakland.
Genevieve Lownie, 2774 Twenty-second street, San Francisco.
Glady's McKinley, 337 San Jose avenue, San Francisco.
Audrey Brunig, 1732 Twelfth street, San Francisco.
Samuel Graf, 131 Duboce avenue, San Francisco.
Mary McGowan, 1507 Sanchez street, San Francisco.
Frances Carrich, 1762 Church street, San Francisco.
Frank Milton Jr., Woodland.
Helen Juxiz, 21 Henry street, San Francisco.
Ruth Freedlund, 1767 Highland avenue, East Oakland.
Elinor Maltz, 2158 Clinton avenue, Alameda.
Rose Stone, 1529 Hawthorne terrace, Berkeley.
Emmet A. Commins Jr., 458 Waltham avenue, Oakland.
Ada Fisher, 2102 Sutter street, San Francisco.
Horace Walling, 11 Griffith avenue, San Mateo.
Frank Nixon Jr., Woodland.
Lloyd Anderson, 1627 Eddy street, San Francisco.
Edith Purcell, 365 Day street, San Francisco.
Paul Scovel, 158 Jordan avenue, San Francisco.
Thelma Miller, 1710 Francisco street, Berkeley.
Helen Heywood, 1309 Grove street, Berkeley.
LeRoy Hamlett, box 67, Le Grand.
Ida M. Jones, 424 Fair street, Petaluma.
Carter Phair, box 95, R. F. D. 3, Petaluma.
Marie G. Abernathie, Suisun.
Corinne MacMillan, 262 Thirteenth avenue, Richmond district, San Francisco.
Mabel Fletcher, 1126 I street, Sunset district, San Francisco.
George Linn, Yountville.
Fannie Sutton, R. F. D. 29, Los Gatos.

CURIOSITIES OF THE CHAMELEON

POPULAR information as regards the chameleon is limited to the knowledge that this is a lizard like creature with a remarkable propensity for assuming different colors. This is certainly correct as far as it goes, but an extraordinary attribute of the chameleon is frequently overlooked. It is to be found in the creature's dual intelligence. The chameleon is not allied closely to any other animal; it stands as a genus itself. The nervous centers in one lateral half operate independently of those in the other. This seems outrageous, and it is; but it is true. The chameleon has two lateral centers of perception—of sensation and of motion. There exists also a third center—that common one in which abides the power of concentration by means of which the two sides of the creature may be forced to work in harmony with each other. But this center of concentration does not always dominate the situation. Notwithstanding the strictly symmetrical structure of the animal's two halves, the eyes move quite independently, and they convey distinct and separate impressions to their respective centers of perception. As of the eyes, so of the other members—each reports to and is controlled by its own center.

The result is that, when the faculty of concentration becomes disturbed, everything is jumbled. Let the chameleon grow agitated, and its movements grow erratic; they are those of two creatures fastened together, or rather of two half creatures joined. Each half exhibits its intention of going its separate way. The result is a pitiable confusion of movement.

There is no concordance of action. A curious example of the chameleon's helplessness when unduly excited is found in the fact that it cannot swim. The shock of being plunged into water upsets the poise of its faculty for concentration. Forthwith each side strikes out wildly for itself, to its own undoing. The chameleon is the only four legged vertebrate that cannot swim.

When the creature is calm, every impulse to motion is referred to the common center of concentration, and the entire organism acts in fitting accord with the commands issued by that faculty. Thus, while totally different impressions from the two eyes are transmitted from their centers to the common one, that concentrating power decides as to which scene is the more important, and then directs the eye otherwise engaged also to regard it. The same principles applies in the control of all the members—so long as the animal remains unexcited. Any observer may easily verify the existence of this dual nature in a superficial way by some experiments with a sleeping chameleon. A touch on one side of the animal will wake that side up, while the other side sleeps calmly on.

Find the States Named Here

Mrs. Ippi wouldn't let Ida hoe in the garden nor Della wear Caroline's new jersey because, she said, "I want you to go riding with the other girls." Miss Ouri rode Island, Virginia said, "I'll mount Tana," but Georgia said, "I'll stay home so I can sass ma." They had a race up the main road, but wouldn't let Mary land a winner.



Interesting Little Stories Direct From Nature Written for The Junior Call

By WILLIAM F. FILE

THE WONDERS OF INDIAN CORN

Flower in the cranial wall.
I pluck you out of the cranial wall.
Hold you here root and all, in my hand,
Little flower—but if I could understand
What you are, root and all, and all in all,
I should know what God is and what man is.
—Tennyson.

HAD the poet Tennyson known the wonderful things about Indian corn one might suppose he found a stalk of corn growing in the cranial wall.

The Indians regarded the corn as a direct gift from the great spirit, and Longfellow and other writers refer to their veneration for the corn plant. Listen to this from Hiawatha: "All around the happy village, Stood the maize fields green and shining."

Waved the green plumes of Mondamin, Waved his soft and sunny tresses, Filling all the land with plenty. 'Twas the women who in springtime Planted the broad fields and fruitful, Buried in the earth Mondamin; 'Twas the women who in autumn Stripped the yellow husks of harvest, Stripped the garments from Mondamin, Even as Hiawatha taught them. Once when all the maize was planted Hiawatha, wise and thoughtful, Spoke and said to Minnehaha, To his wife, the Laughing Water: "You shall bless tonight the cornfields, Draw the magic circle round them, To protect them from destruction, Blast of mildew, blight or insect."

Look at the pictures given here of the corn. The stalk, straight and upright, covered with blades from near the ground to where the tassel sets on the stalk. The tassel is its crown, the spikes reaching out in every direction and covered with little flowers, from which when they are fully developed there fall showers of golden pollen.

If you could see the array of roots a row of corn presents you would be surprised. I once spent more than a day digging out a hill of corn to see how long the roots were. The ground was removed for three feet on every side and to the depth of four feet. I



THE PEARL OYSTER

makes an opening like a funnel. The tassel at the top, which is King Corn's crown, sheds its showers of pollen when the silks are just right to receive it. The tiny particles of pollen all the air. If you go through a cornfield at the time the pollen is falling you will be covered with the yellow dust. Now one little grain of pollen gets into the funnel opening of each silk and by capillary attraction is carried back through the tiny tube to the kernel and the grain of pollen fertilizes the grains.

I have told you how the stalk is covered with glass or dissolved silica. There is another very interesting thing about the cornstalk. After it has matured the blades and the tassel and the ear nature seems to have had an afterthought and came back. She looked upon the stalks of corn loaded with golden harvest of ears and reflected that the autumn winds and rains would be falling, perhaps before the ears would be gathered, and seeing danger said: "I know how to save this crop. I will brace each stalk against the windstorms of autumn and winter." She proceeds forthwith with the last energies of the plant to grow a row, sometimes two rows, of brace roots. These brace roots are upward, but these brace roots spring from the first joint above the earth and run downward into the earth, encircling the

foot of the stalk with an umbrella-like system of braces.

The husk of the corn is as full of wonder as the other parts I have described. Nature wraps up the baby ear of corn as carefully as a mother could her infant at night, one layer over the other, the outer ones coarser and thicker and the finer layers next to the ear. The one directly above the silks and grains is almost as fine and soft as tissue paper.

Then the cob, the woody structure, on which is arranged the grains and rows. It would take an architect to build a cob as fine as this. I can not show you one in cross section to show how definite are its lines of structure.

If the corn plant is an interesting study the uses of the corn are equally so. Besides the common use of corn for bread and feed there are more than 100 by-products. If we had no other grain than corn, with our modern processes we could go a long way toward maintaining human life and maintaining it well on corn alone.

THE PEARL OYSTER

The picture here is of the pearl oyster. All oysters are pearl makers, but this species from the island of Ceylon is peculiarly rich in pearl formation. I wish I could show you how wonderfully beautiful this shell is. Outside it is a golden pearl and in the sunshine it is rich and showy. Inside it is lined with mother of pearl of most exquisite hues. Few of all the beautiful shells are more admired than the pearl oyster. This one is about six inches across and has been reduced in size about an inch all around, as part of the shell will not polish.

The natives of Ceylon are many of them engaged in the pearl fishery. The big oysters are down deep in the ocean, and divers go down and bring them to the surface. They are thrown on the shore and lie there for three or four days in the tropical sun of Ceylon and then they are thrown into tubs of water and the pearls drop out.

You will understand that not every oyster the divers bring up has a pearl in it, but a large percentage do have, and many very fine and beautiful ones are found which bring enormous prices and find their way into all the jewel markets of the world.

I have another story in this line of a pearl fisher nearer home, which I will give the readers of The Junior Call later.

