28 Eggs Laid by Hen Plus; Simple Enough

Train Problem Offers More Resistance to Puzzle Sharks.

BY THE PROBLEM EDITOR.

WE HASTEN TO CATCH UP, so today reproduce herewith answers to two of the most ancient "teasers:"

"If a hen and a half lay an egg and a half in a day and a half, how many eggs will seven hens lay in six days!"
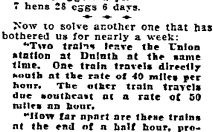—Twenty-eight (28) eggs, of course!

Thus was an easy one—for the Problem Editor. But not so easy for some of you Fans. The following delved into the intricacies of the "and-a-half" and emerged triumphant:

Odella Person, 2904 Exeter avenue, Duluth; George Kelley, Carson Lake, Minn.; A. L. Tharaldson, Bemidji; "Brain Fag," South Harbor; Marion Hutchinson, 2112 Carroll avenue, St. Paul; Olaf J. Haugland, Ericsburg, Minn.; Math E. Matics, Beaver Bay, Minn.; K. E. W., Morgan Park; Duluth; Art Engstrom, Two Harbors; "Dumbell", Duluth; "Old Dad", Ericsberg; O. S. C., Beaver X-ing, Minn.; J. S., Duluth; W. R. Jeppeson, 2324 West Sixth street, Duluth, who still is "after the concrete suspenders;" "Shoemaker", 1821 West Superior street, Duluth; "Ichabod," Duluth; "Share", Duluth; S. A., Virginia; J. S. Rich, Duluth.

The following insist that 42 eggs should be the correct answer: Miss Carmen Rickard, Duluth; S. H. W., Two Harbors; N. G. S., Duluth; Malcolm Seashore, 1902 East Second street, Duluth, age 12; M. J. Merit, Virginia; "Kid Bluff", Duluth; E. Mike Seeley, Elwabik; W. C. Edgett; George R. Perglass, Virginia; Peter Lund, Drummond, Wis.; Miss Gladys Mattson, French River; Dr. H. B. D., Eveleth; G. R. Odanah, Wis.; Raymond Perlman, Erelth.

Miss T. E. M., 3601 Crescent View, Duluth, says, "How about 63 eggs? Right!" No!!! W. A., Duluth, thinks 57 should be O. K. Nix!

1 hen 1 egg	1½ days.
1 hen 2-2 egg	1 day.
1 hen 4 eggs	6 days.
7 hens 28 eggs	6 days.

Now to solve another one that has bothered us for nearly a week:

"Two trains leave the Union station at Duluth at the same time. One train travels directly south at the rate of 40 miles per hour. The other train travels due southeast at a rate of 60 miles an hour.

"How far apart are these trains at the end of a half hour, providing the tracks are perfectly straight?"
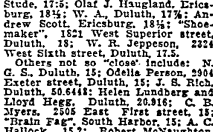
The correct measurement of the distance cross country is—17.3296 miles.

Sorry not to have a diagram to explain how it's done (artists are taking the air), but perhaps we can get along with this explanation:

From the Union station (A) draw a line to 20 miles directly south (AB), to represent the distance covered by the 40 mile train. Also beginning at the Union station draw a line to 25 miles directly southeast (AC), to represent the distance covered by the 50 mile train. Thus we have a 45 degree angle.

For experimental purposes draw a dotted line (AD) for 50 miles directly east from A, completing an angle of 90 degrees. Connecting the termini of the angle we have a right triangle whose hypotenuse is 28.2844 miles, and which we know to be bisected at X by the line AC. Therefore BX becomes 14.1422 miles. AX also is 14.1422 miles. XC becomes the difference of 25 miles and 14.1422 miles, which is 10.8578 miles.

Finding the hypotenuse of the triangle BXC now becomes a matter of the square root of 14.1422 squared plus 10.8578 squared, which is 17.3296 miles. Is it clear?

First honors go to: Are Engstrom, Two Harbors; K. W. Morgan Park, Duluth; Leslie Randall, 1703 West Second street, Duluth; G. H. H., St. Paul; "B", Duluth; "Dumbell", Duluth; "Sig Masigh", Duluth; S. J. S., Duluth.

Others go to "close" with: "Mac", Duluth, 18 miles; "E. Z. Steve", Superior, 17.817 plus; Eddie Kovach, Chisholm, 17.5; "Share", Duluth, 17.41; Peter Lund, Drummond, 17.828; "Old Dad", Ericsburg, 17.553; Washington Stude, 17.5; Olaf J. Haugland, Ericsburg, 18½; W. A., Duluth, 17½; Andrew Scott, Ericsburg, 18½; "Shoemaker", 1821 West Eleventh street, Duluth, 18; W. R. Jeppeson, 2324 West Sixth street, Duluth, 14.

Others not so "close" include: N. G. S., Duluth, 17.5; Odella Person, 2904 Exeter street, Duluth, 15; J. S. Rich, Duluth, 50.6441; Helen Lundberg and Lloyd Hegg, Duluth, 20.916; C. B. Myers, 2305 East First street, 15; "Brain Fag", South Harbor, 15; A. C. Hallock, 15.2; Robert McNaughton, Duluth, 15; E. Z. Steve, Superior, 15; S. H. Erickson, 362 West Eleventh street, Superior, 3.53; Beatrice Karet, Nashwauk, 45; C. D. Noyes, Duluth, 13.55.

We'll call this a day! Tomorrow will be published a solution to the one about "Dad's" tie, and names of persons whose answers to "teasers" have arrived after said "teasers" were pickled to pieces in this column. La-di-da!