Puzzling the Piping Plover

evaluate for the letter "S" and the letter "O". The solutions to the variables you'll be solving letter you found it to be equal to on the blank above it. reverse. Find the value of the variable you solved for in the grid on the next page, and put the sentences in the Piping Plover blurb. To decode the quote on the next page, do the process in for will also be the values of the letters that you'll need to replace in order to complete the Below you'll find seven systems of equations to solve, as well as two other equations to

$$D = 26B$$
 $M = N - 100$ $Y = 6W + 3$
 $2B + D = 56$ $M + N = 3700$ $7W - Y = 1$

$$E = G + 3060$$
 $T = 3R - 1.5$ $O = ((T - R)/12) + .6$
 $2G - 290 = E$ $R + T = 25.5$

$$I = H - 85$$
 $U = V - 11$ $S = D - 11B$
 $I + H = 3921$ $6U + V = 60$

The Piping Plover is a small sand-colored shorebird about the size of a sparrow. The adult will have yellow-orange legs and black bands across its forehead and around its neck. There a subspecies. In 3003 their total population was estimated to be (H/O) , with 350, or 50.2 % of

will have yellow-orange legs and black bands across its forehead and around its neck. 2 subspecies. In 3003 their total population was estimated to be 1410, with 350, or 52 % of the

They range from $\frac{16}{R}$ to $\frac{1}{V}$ inches in length, have a wingspan from $\frac{16}{V}$ to $\frac{18.75}{V}$ inches, and

weigh about 1/2 ounces. Most Plover nests will have 4 eggs in them, the female having laid

one egg every other day for a week. The eggs will have an incubation period of $\frac{27}{V}$ days before

they hatch, and when an egg does hatch it will take about 30 days before the chick can fly.

When approached, they'll more frequently run from you than fly.

elsewhere. In the 1800 s and early 1900 s the feathers of the Piping Plover were used as decorations The Piping Plover is an "endangered" species in the Great Lakes region, and "threatened"

for women's hats. The Migratory Bird Act of 1918 helped the population recover for awhile, but

the growth in popularity of the east coast to live and vacation stifled the resurgence. Since 1991 there has been a slight increase in their population

Puzzling the Piping Plover (Part 2)

 $\frac{G}{3350} \xrightarrow{1.6} \frac{O}{52} \xrightarrow{3350} \frac{G}{1918} \xrightarrow{18} \frac{V}{6410} \xrightarrow{52} \frac{E}{3350} \xrightarrow{1918} \frac{S}{18} \xrightarrow{6410} \frac{S}{30}$ $\frac{E}{6410} \xrightarrow{18} \frac{V}{6410} \xrightarrow{6.75} \xrightarrow{20} \xrightarrow{20} \xrightarrow{1918} \frac{B}{6.75} \xrightarrow{52}$ $\frac{H}{2003} \xrightarrow{1918} \xrightarrow{30} \xrightarrow{4} \xrightarrow{1.6} \xrightarrow{6.75} \xrightarrow{1800} \xrightarrow{2} \xrightarrow{7} \xrightarrow{18.75}$ $\frac{H}{2003} \xrightarrow{E} \xrightarrow{52} \xrightarrow{1.6} \xrightarrow{6410} \xrightarrow{30} \xrightarrow{1918} \xrightarrow{1900} \xrightarrow{18.75}$ $\frac{H}{18.75} \xrightarrow{2003} \xrightarrow{6.75} \xrightarrow{1.6} \xrightarrow{1.6} \xrightarrow{4} \xrightarrow{1918} \xrightarrow{18.75} \xrightarrow{1918} \xrightarrow{1900} \xrightarrow{18.75} \xrightarrow{1.6}$ $\frac{H}{18.75} \xrightarrow{2003} \xrightarrow{6410} \xrightarrow{1900} \xrightarrow{6410} \xrightarrow{30} \xrightarrow{1975}$

$$D = 26B$$

$$AB + D = 56$$

$$AB + 26B = 56$$

$$AB + 26B = 56$$

$$AB = 30$$

$$B = 2$$

$$AB = 1000$$

S = D - IIB S = 52 - II(a) S = 5a - 2aS = 30