The SQUARE STAIR

DECODE THE MESSAGE NEXT TO THIS PICTURE AND DISCOVER A SPECIAL CHALLENGE:

FIRST, change any percent below into a fraction in lowest terms.

SECOND, each time this fraction appears in the code, write the letter of that problem above it.

KEEP WORKING UNTIL YOU HAVE DECODED THE SPECIAL CHALLENGE.

R = 10% = ◯   I = 5 % = ◯   S = 75% = ◯

G = 50% = ◯   Y = 4 % = ◯   W = 90% = ◯
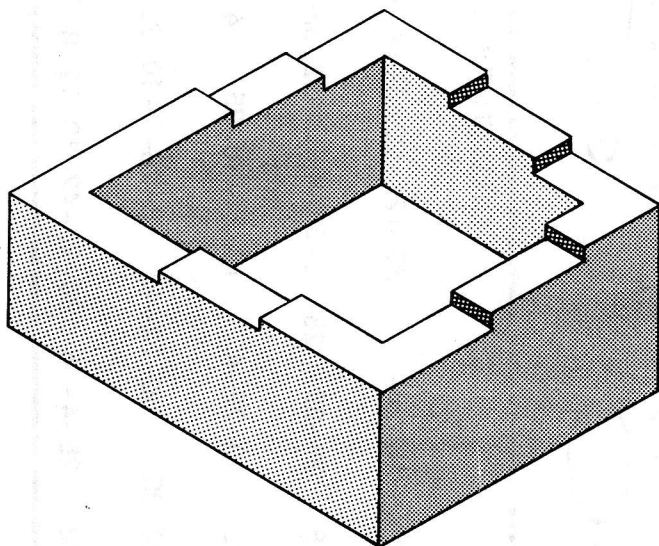
E = 25% = ◯   P = 12% = ◯   A = 2 % = ◯

F = 1 % = ◯   M = 60% = ◯   H = 35% = ◯

K = 20% = ◯   O = 13% = ◯   T = 80% = ◯

A SPECIAL CHALLENGE:

$$\frac{3}{5} \quad \frac{1}{50} \quad \frac{1}{10} \quad \frac{1}{5} \quad \frac{4}{5} \quad \frac{7}{20} \quad \frac{1}{4}$$

$$\frac{7}{20} \quad \frac{1}{20} \quad \frac{1}{2} \quad \frac{7}{20} \quad \frac{1}{4} \quad \frac{3}{4} \quad \frac{4}{5}$$

$$\frac{3}{4} \quad \frac{4}{5} \quad \frac{1}{4} \quad \frac{3}{25} \quad \frac{13}{100} \quad \frac{1}{100}$$

$$\frac{4}{5} \quad \frac{7}{20} \quad \frac{1}{20} \quad \frac{3}{4}$$

$$\frac{3}{4} \quad \frac{4}{5} \quad \frac{1}{50} \quad \frac{1}{20} \quad \frac{1}{10} \quad \frac{9}{10} \quad \frac{1}{50} \quad \frac{1}{25}$$

Find the Message

TO FIND THE HIDDEN MESSAGE, FOLLOW THESE DIRECTIONS:

Each row going across has 5 rectangles. Only 3 of them contain TRUE equations. Circle these 3 equations in each row.

Over each equation you have circled, notice the number and letter. The number tells you which box at the bottom of the page to put the letter in. You will spell out a five-word message.

21 - P	17 - I	14 - L	13 - E	5 - A
44%=4.4	35%=.35	67%=.67	53%=.053	97%=.97

9 - S	13 - A	18 - F	21 - R	6 - A
8%=.08	9%=.09	5%=.5	1%=.01	3%=.003

8 - G	10 - E	2 - A	6 - N	15 - S
92%=9.2	2%=.2	20%=.2	78%=.78	4%=.04

10 - A	19 - O	7 - W	12 - I	18 - N
2.5%=.025	3.1%=.31	40%=.4	8.8%=8.8	7.9%=.079

12 - E	20 - E	4 - P	11 - S	8 - A
.4%=.004	5%=.05	.5%=.05	10%=.01	.2%=.002

16 - T	11 - R	3 - R	19 - G	1 - P
16.3%=1.63	15.2%=.152	7%=.07	3.72%=.0372	4.85%=.485

1 - T	16 - T	4 - L	16 - W	4 - Z
6.3%=.063	2.9%=.29	77.3%=77.3	.9%=.009	98.9%=.989

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21

How Did the Fighting Octopus Go into Battle?

TO FIND THE ANSWER TO THIS IMPORTANT QUESTION, FOLLOW THESE DIRECTIONS:

The fractions in column A are equivalent to the percents in column B, and similarly for columns C and D. Draw a straight line connecting each fraction to its percent equivalent. Each line will cross a letter and a number. The number tells you where to put the letter in the line of boxes at the bottom of the page.

A

$\frac{1}{2}$

$\frac{1}{5}$

$\frac{9}{10}$

$\frac{1}{20}$

$\frac{7}{50}$

$\frac{1}{4}$

$\frac{3}{25}$

$\frac{4}{5}$

$\frac{7}{10}$

B

80%

90%

14%

20%

12%

70%

50%

5%

25%

C

$\frac{19}{20}$

$\frac{17}{25}$

$\frac{93}{100}$

$\frac{3}{4}$

$\frac{3}{10}$

$\frac{33}{50}$

$\frac{3}{5}$

$\frac{9}{25}$

$\frac{7}{20}$

D

93%

66%

95%

30%

60%

35%

75%

36%

68%

Scattered letters/numbers (B/C region): L, 13, 3, T, 7, D, 18, L, E, E, 12, 5, 9, 8, R, Y, 15, L

Scattered letters/numbers (C/D region): 1, 11, E, E, 4, W, 10, 6, M, 17, X, E, 2, 14, A, R, 16, M

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18