

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.

$R = 10\% = \bigcirc$

$I = 5\% = \bigcirc$

$S = 75\% = \bigcirc$

$G = 50\% = \bigcirc$

$Y = 4\% = \bigcirc$

$W = 90\% = \bigcirc$

$E = 25\% = \bigcirc$

$P = 12\% = \bigcirc$

$A = 2\% = \bigcirc$

$F = 1\% = \bigcirc$

$M = 60\% = \bigcirc$

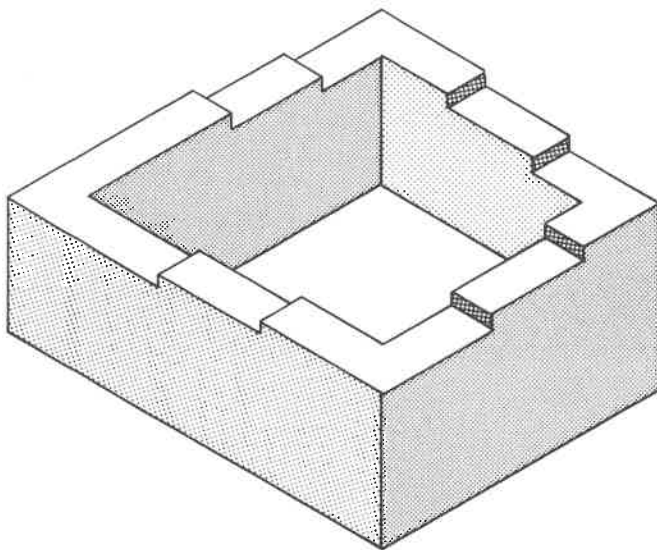
$H = 35\% = \bigcirc$

$K = 20\% = \bigcirc$

$O = 13\% = \bigcirc$

$T = 80\% = \bigcirc$

A SPECIAL CHALLENGE:



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

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

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

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

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

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.

*this side on sheet

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%
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Scattered letters and numbers for matching:

Letters: L, T, D, L, E, E, X, A, R, M, W, Y, R, L, E

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

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

FIRST, work each problem and find your answer in the rectangle below. The correct answers run across from left to right.

SECOND, cross out each correct answer. When you finish, there will be 24 boxes not crossed out.

STARTING ON THE TOP LINE AND WORKING FROM LEFT TO RIGHT, PRINT THE 24 LETTERS THAT REMAIN INTO THE BOXES AT THE BOTTOM OF THE PAGE. A HIDDEN MESSAGE WILL APPEAR!

1 12% OF 17 = 6 93% OF 9 = 11 79% OF 175 =

2 35% OF 15 = 7 26% OF 40 = 12 38% OF 95 =

3 67% OF 44 = 8 80% OF 36 = 13 7% OF 669 =

4 8% OF 94 = 9 9% OF 114 = 14 4% OF 59 =

5 5% OF 34 = 10 6% OF 35 = 15 3% OF 2810 =

V	A	C	C	A	B	R	O	W	A	E	D	U	B	S	P	I	O
2.	0	4	7	8.	3	7	6.	3	1	0.	2	6	5.	3	6.	1	8
Y	S	T	A	R	L	I	G	C	K	W	K	E	T	I	E	A	O
4.	0	2	8.	8	2.	6	4	6.	8	3	3	3.	3	5.	2	5	9
S	I	H	O	N	G	A	R	O	R	S	S	S	E	E	O	M	E
1.	7	1.	1.	1	3	8.	2	5	8.	7	1	0.	4	5	2.	3	6
A	R	A	I	D	E	O	O	N	L	U	U	P	Z	N	M	D	D
6	4.	2	9.	4	8	5	7.	5	2	4.	8	4.	3	6	2.	1	1
			</														

C	A	C	Y	S	L	I	K	E	T	O	H	O	R	S	E	A	R	E																	
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*this side work separate

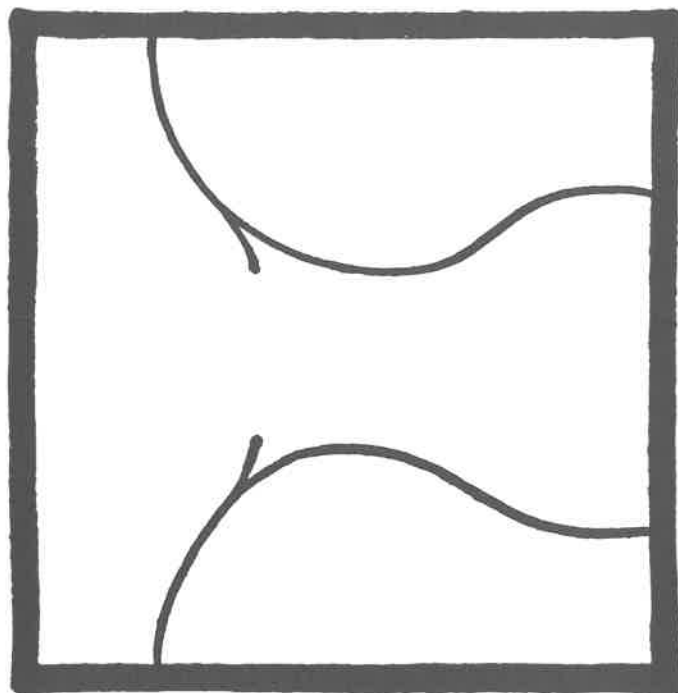
What is the Title of This Picture?

CODED TITLE:

99 6.9 11.96 11.5 72 11.5 89 50 11.9 85 99 20.4

85 11.96 99 11.96 85 20.4 89 11.5 11.9 12 75 85 4

99 11.5 30 24 20.4



TO DECODE THE TITLE OF THIS PICTURE:

Figure out what number should go in the blank in any exercise below. Each time this number appears in the code, write the letter of that exercise above it.

KEEP WORKING AND YOU WILL DECODE THE TITLE.

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|---------------------|-----------------------|--------------------------|
| Ⓐ 23% of 52 = _____ | Ⓗ 9% of _____ = 4.5 | Ⓐ 51 out of 60 = _____% |
| Ⓑ 12 = _____% of 40 | Ⓐ 70% of 17 = _____ | Ⓚ 67% of _____ = 8.04 |
| Ⓒ 25% of _____ = 18 | Ⓒ 12 = _____% of 300 | Ⓔ 1% of 1150 = _____ |
| Ⓓ 6% of 340 = _____ | Ⓜ 55% of _____ = 13.2 | Ⓟ 89 out of 100 = _____% |
| Ⓘ 15 = _____% of 20 | Ⓦ 92% of 7.5 = _____ | Ⓣ 50% of _____ = 49.5 |