Key

What Did The Girl Rock Say To The Boy Rock?

Find the answer to any question below in the code key. Notice the letter next to it. Print this letter in the box at the bottom of the page that contains the problem number. Keep working and you will discover the answer to the title question.

T ① If a coin is tossed, what is the probability of getting a head? $\frac{1}{2}$

T ② If a coin is tossed, what is the probability of getting a tail? $\frac{1}{2}$

O ③ Suppose a coin is tossed 100 times. About how many times would you expect to get heads? $\frac{1}{2} \cdot 100 = 50$

Suppose you roll a regular 6-faced die. What is the probability of rolling:

E ④ a 6? $\frac{1}{6}$ E ⑤ a 2? $\frac{1}{6}$ E ⑥ a 4? $\frac{1}{6}$

A ⑦ Suppose you roll a 6-faced die 90 times. About how many times would you expect to get a 5? 15 $\frac{1}{6} \cdot 90 = 15$

Suppose a jar contains 5 red marbles, 4 white marbles, and 3 blue marbles. If a marble is drawn at random from the jar, what is the probability that it is: 12 total

R ⑧ red? $\frac{5}{12}$ U ⑨ white? $\frac{4}{12} = \frac{1}{3}$ I ⑩ blue? $\frac{3}{12} = \frac{1}{4}$

A spinner is pictured at the right. If the arrow is spun, what is the probability that the spinner lands on:

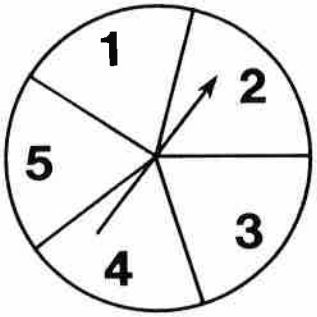
L ⑪ 2? $\frac{1}{5}$

L ⑫ 3? $\frac{1}{5}$

L ⑬ 5? $\frac{1}{5}$

B ⑭ an even number? $\frac{2}{5}$

B ⑮ a number less than 3? $\frac{2}{5}$



CODE KEY	
$\frac{5}{12}$	R
$\frac{1}{2}$	T
30	D
$\frac{1}{4}$	I
50	O
$\frac{2}{5}$	B
15	A
$\frac{1}{3}$	U
$\frac{1}{6}$	E
$\frac{1}{5}$	L

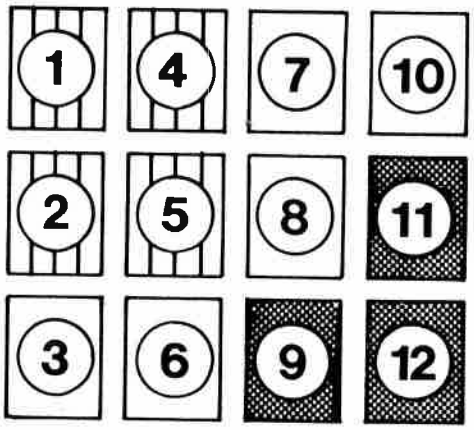
D ⑯ Suppose the arrow is spun 50 times. About how many times would you expect the spinner to land on an odd number? $\frac{3}{5} \cdot 50 = 30$

14	5	7	13	10	2	1	11	4	15	3	9	12	16	6	8
B	E	A	L	I	T	T	L	E	B	O	U	L	D	E	R

Why Are Oysters Greedy?

Find the answer to any question below in the boxes at the bottom of the page. Write the letter of that question in the box above its correct answer. Keep working and you will discover the answer to the title question.

Suppose that a card is drawn at random from the 12 cards shown at the right. What is the probability that the card is:



Ⓔ striped? $\frac{4}{12} = \frac{1}{3}$

Ⓣ shaded? $\frac{3}{12} = \frac{1}{4}$

Ⓘ white? $\frac{5}{12}$

Ⓔ numbered 10? $\frac{1}{12}$

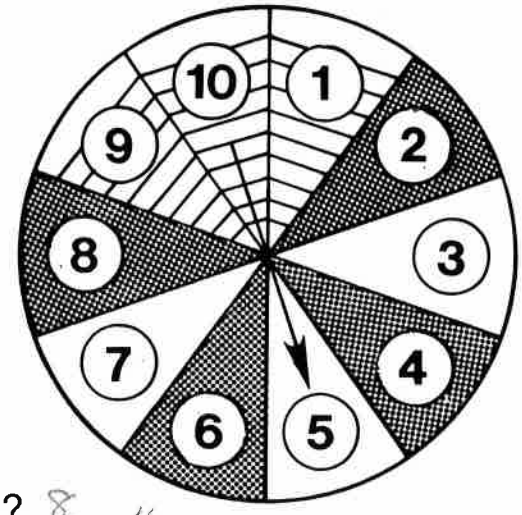
Ⓛ either striped or shaded? $\frac{7}{12}$

Ⓔ either white or striped? $\frac{9}{12} = \frac{3}{4}$

Ⓢ either white or numbered 5? $\frac{6}{12} = \frac{1}{2}$

Ⓡ either numbered 3 or numbered 9? $\frac{2}{12} = \frac{1}{6}$

A spinner is shown at the right. If the arrow is spun, what is the probability that it will stop on a region that is:



Ⓗ striped? $\frac{3}{10}$

Ⓛ either white or shaded? $\frac{7}{10}$

Ⓐ either striped or numbered 7? $\frac{4}{10} = \frac{2}{5}$

Ⓨ either numbered 6 or numbered 3? $\frac{2}{10} = \frac{1}{5}$

Ⓢ numbered 4? $\frac{1}{10}$

Ⓗ not numbered 4? $\frac{9}{10}$

Ⓕ not shaded? $\frac{6}{10} = \frac{3}{5}$

Ⓗ either striped or shaded or numbered 7? $\frac{8}{10} = \frac{4}{5}$

T	H	E	Y	A	R	E	S	H	E	L	L	F	I	S	H
$\frac{1}{4}$	$\frac{3}{10}$	$\frac{1}{12}$	$\frac{1}{5}$	$\frac{2}{5}$	$\frac{1}{6}$	$\frac{3}{4}$	$\frac{1}{10}$	$\frac{4}{5}$	$\frac{1}{3}$	$\frac{7}{10}$	$\frac{7}{12}$	$\frac{3}{5}$	$\frac{5}{12}$	$\frac{1}{2}$	$\frac{9}{10}$