

Why Don't We Wear Paper Clothes?

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.

Suppose a coin is tossed 3 times. What is the probability of:

- ① getting 3 heads?
- ② getting 3 tails?
- ③ getting ANY particular outcome (such as head, tail, tail)?

Suppose a coin is tossed 4 times. What is the probability of:

- ④ getting 4 heads?
- ⑤ getting any particular outcome?
- ⑥ Suppose you toss a coin 4 times and get 4 heads. What is the probability of getting a head on the 5th toss?
- ⑦ Suppose you toss a coin 10 times and get 10 tails. What is the probability of getting a tail on the 11th toss?

CODE KEY

$\frac{1}{4}$	B
$\frac{1}{2}$	R
$\frac{1}{8}$	E
$\frac{6}{25}$	T
$\frac{4}{25}$	H
$\frac{3}{5}$	Y
$\frac{1}{16}$	A
$\frac{9}{25}$	L



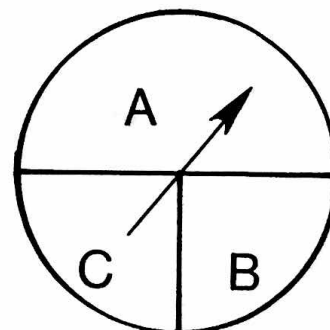
- ⑧ Suppose a jar contains 3 red marbles and 2 white marbles. If a marble is drawn at random, what is the probability it is red?

Suppose a jar contains 3 red marbles and 2 white marbles. If one marble is drawn at random, then replaced, and then another marble is drawn at random, what is the probability of:

- ⑨ drawing a red marble on both draws?
- ⑩ drawing a red marble, then a white marble?
- ⑪ drawing a white marble on both draws?
- ⑫ drawing a white marble, then a red marble?



The spinner at the right is designed so that $P(A) = \frac{1}{2}$, $P(B) = \frac{1}{4}$, and $P(C) = \frac{1}{4}$. If the arrow is spun twice, what is the probability of the spinner landing on:



- ⑬ A on both spins?
- ⑭ A, then B?
- ⑮ B on both spins?

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