Precalculus Practice S.CP.B.9: Binomial Probability	1
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1.	A fair coin is tossed probability of obtaining	
	[A] 0.0029	[B] 0.1208
	[C] 0.0161	[D] 0.0537

2. A fair coin is tossed 15 times. What is the probability of obtaining exactly 1 head?

[A] 0.0000

[B] 0.0005

[C] 0.0032

[D] 0.0139

3. A fair coin is tossed 10 times. What is the probability of obtaining exactly 1 head?

[A] 0.0439

[B] 0.1172

[C] 0.0010

[D] 0.0098

4. A fair coin is tossed 15 times. What is the probability of obtaining exactly 13 heads?

[A] 0.0032

[B] 0.0005

[C] 0.0417

[D] 0.0139

5. A fair coin is tossed 13 times. What is the probability of obtaining exactly 1 head?

[A] 0.0095

[B] 0.0016

[C] 0.0001

[D] 0.0349

NAME:

6. You are going to toss a coin five times. Which has the same probability as P(5 tails)?

[A] P(2 heads and 3 tails)

[B] P(3 heads and 2 tails)

[C] P(4 heads and 1 tail)

[D] P(5 heads) [E]

[E] P(1 head and 4 tails)

7. A fair coin is tossed 8 times. What is the probability of obtaining exactly 6 heads? Express the answer both in terms of  ${}_{n}C_{k}$  and as a four-place decimal.

8. A fair coin is tossed 9 times. What is the probability of obtaining exactly 1 head? Express the answer both in terms of  ${}_{n}C_{k}$  and as a four-place decimal.

9. A fair coin is tossed 16 times. What is the probability of obtaining exactly 1 head? Express the answer both in terms of  ${}_{n}C_{k}$  and as a four-place decimal.

10. A fair coin is tossed 12 times. What is the probability of obtaining exactly 1 head? Express the answer both in terms of  ${}_{n}C_{k}$  and as a four-place decimal.

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- [1] C
- [2] B
- [3] D
- [4] A
- [5] B
- [6] D
- $[7] {}_{8}C_{2}(.5)^{8} \approx 0.1094$
- [8]  ${}_{9}C_{1}(.5)^{9} \approx 0.0176$
- [9]  $_{16}C_1(.5)^{16} \approx 0.0002$
- $[10] _{12}C_1(.5)^{12} \approx 0.0029$