

World Series Problem 1

In a "world series" two teams play each other in at least four and at most 7 games. The first team to win four games is the winner of the "world series". Assuming that both teams are equally matched,

What is the probability that a "world series" will be won:

- (a) In 4 games?
- (b) In 5 games?
- (c) In 6 games?
- In 7 games?



- YAARRA BBBAAB AAAA AAAA 4 games - AABABA BBABAB BBBB BABB AB - ABAABA AAABA P (4games) = /16 A BBB AB -BAAABA DABAA BBAABB -AABBAA ABAAA BABABB - ABABAA BAAAA - BAABAA ABBABB BBBAB ABBAAA BAABBB BBABB BABAAA AABB BB ABABBB BABBB BBAAAA ABBBB BBBAAAB -AAABBBA BBA BAAB -AABABBA BABBAAB - ABAABBA ABBBAAB -BAAABBA BBAA BAB - AABBABA B ABA BAB - A BAB ABA ABBA BAB -BAABABA BAA BBAB -ABBAABA ABABB AB -BABAABA BBAAABB - AABBBAA BABAABB -ABABBAA ABBAABB -BAABBAA BAABABB - ABBABAA ABA BABB - BABABAA BAAABBB - ABBB AAA - BABBAAA ABAABBB

> - BBB AAAA AABBBB - BBABAAA AABBABB - BBABBAAA AABBABB

· BB AAABA AA BBBAB

World Series Problem 1

Ankur

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2/16

What is the probability that a "world series" will be won:

- (a) In 4 games ? 2/16.
- 416 (b) In 5 games ? 8/32 %6
- 416 (c) In 6 games ? 29/64 5/16: \$16
- (d) In 7 games # //28

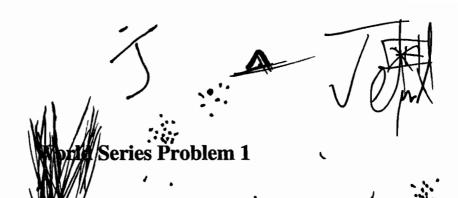
AAABA AABAA A BAAA BAAAA 4x2

Genes 7 gues -AAABBBA -AAABBA . AABBBAA -AABBAA -ABBBAAA · A BBAAA . 868AAAA -BAAABA - BAABAA - BA BAAA - A BBAABA - ABABAA - ABAABA - AABABA

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What is the probability that a "world series" will be wen:

- ((b) In 5 games?
- 5(c) In 6 games ? 14
- /(d) In 7 games ? 12F 132
- 2.3.2.2.2.2.2

(d) In 7 games? (1)

A+B A+B A

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1.2.2.2 /32 /32 /32 48+32.46

)-/. 40

40 125 64 37 64 37

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Jeff)

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(a) In 4 games?	其本类				1/6			
(b) In 5 games?	A-X-X. A		14/1					
(c) In 6 games ?				(6 \	1		
(d) In 7 games ?	F			<u>l</u> 16				
AABAA ABAAA ABAAA LYRILSYZ' 127 11.1.1.1.0	63 V	1 12			112 4-12 -17			
Kenilworth]/22/49 1/15/99				216	Probability		

Mike A. . 162 $\frac{16}{2} \quad \frac{3}{1} \quad \frac{4}{1} \quad \frac{5}{0} \quad \frac{6}{1}$ 37 3J -9 23 1.21 13.3.0 14.601 1. 5. 10 @S 1 1615201581 1123456 ١ ic 21 21 .44

France

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2 (a) In 4 games?

1 (b) In 5 games ?

6, 10 (c) In 6 games?

(d) In 7 games?

Perla

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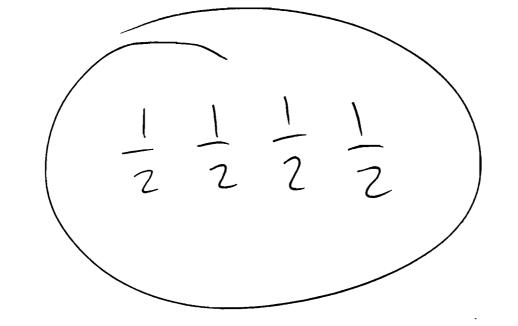
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Probability

ABBA AAABBBA AABABBA A B A B BBA BAAABBA AABBBAA ABABBAA BA A BBAA ABBBAAA BABBAAA BBBAAAA BABABAA BABABABA ABBA B AA ABBAABA BBABAAA BBBAAAA BBAABAA BBAAABA





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