TEST YOUR SKILLS

TRUE OR FALSE? 1

A box contains 7 red balls and 4 white balls. Two balls are taken out and not replaced. The events «the first ball is red» and «the second ball is white» are independent.

- 2 A bag contains 2 red beads and 3 black beads. Two beads are taken from the bag without replacement. What is the probability that both beads are same colour?
- 3 On my way to work the probability that I have to stop at the first set of traffic lights is 0.3. The probability of stopping at the second 0.75. Find the probability that on one morning
 - a) I stop at both sets of lights;
 - b) I stop only once at the second set of lights;
 - c) I stop at least once.
- There are five cards, two red and three black. You draw two cards, without replacement. What is the probability that both have the same color?

(USA Lehigh University: High School Math Contest, 2005) 2

[a) 0,225; b) 0,525; c)0,825]

What is the probability of tossing three standard dice and getting a sum of 15? 5

(USA Bay Area Math N	Meet, Bowl Sampler, 199
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A ball is removed at random from an urn which has 10 white and 10 black balls, and is n	ot replaced in th
urn. This process is repeated twice. What is the probability that both balls are white?	-
(USA Bay Area Math N	Meet, Bowl Sampler, 199

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A and B each throw a die. What is the probability that A's die shows a greater value than B's die? 7 (USA Bay Area Math Meet, Bowl Sampler, 1997)



GLOSSARY

bag : borsa, sacchetto	random: a caso	to throw-threw-thrown:
bead: penína	to replace: http://www.complazzare	gettare, tirare
card : carta da gioco	replacement: sostituzione	to toss : buttare, lanciare
die (dice) : dado (dadi)	reintroduzione	twice : due volte, doppio
to draw-drew-drawn: lanciare	to stop : fermarsi	urn : urna