



























	DNA match questions									
log(LR)	Suspect 1	Suspect 2	Suspect 3	Suspect 4	Suspect 5					
1. Gun										
1. Hat										
2. Safe										
2. Phone										
3. Counter										
3. Safe										
4. Keys										
4. Tape										
5. Hat 1										
5. Hat 2										
5. Overalls										
5. Shirt										











TrueAllele [®] com For each contribu	putes genotypes tor, at every locus
Allele pair	Probability
16, 18	65%
14, 18	12%
13, 18	10%
18, 20	8%
17, 18	4%



TrueAllele match answers								
log(LR)	Suspect 1	Suspect 2	Suspect 3	Suspect 4	Suspect 5			
1. Gun	-				4			
1. Hat	3				4			
2. Safe								
2. Phone								
3. Counter		6						
3. Safe								
4. Keys								
4. Tape								
5. Hat 1					6			
5. Hat 2								
5. Overalls					11			
5. Shirt					3			







Report results in court



A match between the evidence and the suspect is 12.3 trillion times more probable than a coincidental match to an unrelated Caucasian person

M. W. Perlin, "Easy reporting of hard DNA: computer comfort in the courtroom," *Forensic Magazine*, vol. 9, pp. 32-37, 2012.



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Perlin MW, Legler MM, Spencer CE, Smith JL, Allan WP, Belrose JL, Duceman BW. <u>Validating TrueAllele®</u> <u>DNA mixture interpretation</u>. *Journal of Forensic Sciences*. 2011;56(6):1430-47.

Perlin MW, Belrose JL, Duceman BW. <u>New York State</u> <u>TrueAllele® Casework validation study</u>. *Journal of Forensic Sciences*. 2013;58(6):in press.































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