























- Database hit by association, not by match
- comparison: make false hits
 restrict upload: lose true hits































Lab	oratory	processing
12 eviden	ice items	10 reference items
Scene 1	• qun	5 victims
	• hat	• V1
Scene 2	 safe 	• V2
	 phone 	• V3
Scene 3	counter	• V4
	 safe 	• V5
Scene 4	 keys 	5 suspects
	 tape 	• S1
Scene 5	 hat 1 	• S2
	 hat 2 	• S3
	 overalls 	• S4
	 shirt 	• S5



DNA	match	questions
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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: objective genotypes

For each contributor, 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					

6

11

3

5. Hat 1

5. Shirt

5. Hat 2 5. Overalls





















- 3-4 person DNA mixtures
- low-template & degraded DNA
- Massereene Barracks attack







• create a safer society

