

Crime Busters Answer Key

Science Olympiad North Regional Tournament at the
University of Florida



Section A

1. Arches, loops and whorls (3)
2. Whorl (2)
3. CC Tinsley (1)
4. CC Tinsley (2)

Section B

1. CC Tinsley (2)
2. Similarity in the test or multi striation (2)

Section C

1. Salt (1)
2. Vitamin c (1)
3. Gypsum (1)
4. Baking soda (1)
5. Yeast (1)
6. Rubbing alcohol (1)
7. Water (1)
8. Ammonia (1)
9. Cat hair (1)
10. Polyester (1)
11. Cotton (1)
12. Polyester (1)
13. Rayon (1)
14. Wool (1)
 - a. Reasonings for the following can be: (2 each)
 - i. pH, chemical results, shape, texture, etc.,

Analysis

Correct suspect: CC Tinsley (3)

Motive: Argument/Slamming door in face (2)

Evidence:

- Fingerprint (1.5)
- Shoeprint (1.5)
- Fiber (1.5)
- Chromatography (1.5)
- Rubbing alcohol (1.5)
- Gypsum (1.5)
- Cat hair (1.5)

Disproving:

J\$:

shoeprint/wearing cotton/chromatography/unknown whereabouts (3)

Colton:

shoeprint/wearing wool/chromatography/alibi-seen at a bar (water + ammonia) (3)

Bradley:

shoeprint/wearing rayon/chromatography/alibi-walking around the neighborhood and cooking at home (yeast + baking soda) (3)