**Mystery of the Bones**

**The Scene**

In a quiet camping area known as Crystal Lake, four complete human skeletons were found in the mud when the lake began to dry during a drought. Detectives checked the missing person's reports for people in the area and found that five people had disappeared from that area over the last 10 years.

Oddly, the skeletons were almost completely intact due to being somewhat preserved in the clay at the bottom of the lake.

**~ *Author's Note: These are ficticious characters in a ficticious crime scene***

**Crystal Lake**



**Photos of Remains Found There**



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| **(Pretend) Missing Persons** | | **Evidence Files** |
| http://www.biologycorner.com/projects/bones/sara.gif | Name: Sara Munchausen Age: 21 Height: 5'0 Weight: 105 lbs | [Bones Set 1](http://www.biologycorner.com/projects/bones/bones1.html)  [Bones Set 2](http://www.biologycorner.com/projects/bones/bones2.html)  [Bones Set 3](http://www.biologycorner.com/projects/bones/bones3.html)  [Bones Set 4](http://www.biologycorner.com/projects/bones/bones4.html)  Instructions  1. Each team member should pick a bone set and reconstruct the skeleton using glue, scissors and tape.  2. Each bone of the skeleton should be labeled  3. Next you will need to determine the identity of the bones based on age and height  a. Determine the gender of your subject by looking at the shapes of specific bones  b. Use the following formula to determine the height of your subject   |  |  | | --- | --- | | Your "paper" skeleton is not a real skeleton. Assume that 1cm on your paper skeleton = 8.6 cm on the real skeleton | | | Male (real) | (2.32 x length of the femur in cm.) +65.53 ± 3.94 | | Female (real) | (2.47 x length of the femur in cm.) + 54.10 ± 3.72 |   [Feet to Cm height conversion](http://www.manuelsweb.com/ft_in_cm.htm" \t "_blank)  4. On your reconstructed skeleton, include information about the gender and height of the skeleton and point out your reasoning for your claims (include formulas or arrows to bones, etc)  5. Who is your “missing person”? \_\_\_\_\_\_\_\_\_\_\_\_\_\_; Explain why you chose this individual. |
| http://www.biologycorner.com/projects/bones/jamie.gif | Name: Jamie Matthews Age: 18 Height: 6'2 Weight: 190 lbs |
| http://www.biologycorner.com/projects/bones/neil.gif | Name: Neil Baxter Age: 22 Height: 6'1 Weight: 210 lbs |
| http://www.biologycorner.com/projects/bones/robert.gif | Name: Robert Downey Age: 45 Height: 5'7 Weight: 190 lbs |
| http://www.biologycorner.com/projects/bones/eva.gif | Name: Eva Longori Age: 55 Height: 5'8 Weight: 140 lbs |

Bones Set 1

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| http://www.biologycorner.com/projects/bones/skeleton1/lowarmlft.png | http://www.biologycorner.com/projects/bones/skeleton1/lowarmrt.png | http://www.biologycorner.com/projects/bones/skeleton1/skull_male.png |
| http://www.biologycorner.com/projects/bones/skeleton1/lowlegrt.png | http://www.biologycorner.com/projects/bones/skeleton1/uparmrt.png | http://www.biologycorner.com/projects/bones/skeleton1/lowleglt.png |
| http://www.biologycorner.com/projects/bones/skeleton1/torso.png | http://www.biologycorner.com/projects/bones/skeleton1/uparmlft.png | http://www.biologycorner.com/projects/bones/skeleton1/pelvis_male_orig.png |
| http://www.biologycorner.com/projects/bones/skeleton1/upleglt.png | http://www.biologycorner.com/projects/bones/skeleton1/vert.png | http://www.biologycorner.com/projects/bones/skeleton1/uplegrt.png |

Bones Set 2

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| http://www.biologycorner.com/projects/bones/skeleton2/skull_male.png | http://www.biologycorner.com/projects/bones/skeleton2/torso.png | http://www.biologycorner.com/projects/bones/skeleton2/lowleglt.png | http://www.biologycorner.com/projects/bones/skeleton2/upleglt.png |
| http://www.biologycorner.com/projects/bones/skeleton2/pelvis_male_orig.png | http://www.biologycorner.com/projects/bones/skeleton2/lowarmlft.png | http://www.biologycorner.com/projects/bones/skeleton2/vert.png | http://www.biologycorner.com/projects/bones/skeleton2/uparmlft.png |
| http://www.biologycorner.com/projects/bones/skeleton2/uparmrt.png | http://www.biologycorner.com/projects/bones/skeleton2/lowlegrt.png | http://www.biologycorner.com/projects/bones/skeleton2/uplegrt.png | http://www.biologycorner.com/projects/bones/skeleton2/lowarmrt.png |
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Bones Set 3

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| http://www.biologycorner.com/projects/bones/skeleton3/lowarmlft.png | http://www.biologycorner.com/projects/bones/skeleton3/uparmlft.png | http://www.biologycorner.com/projects/bones/skeleton3/lowleglt.png | http://www.biologycorner.com/projects/bones/skeleton3/lowlegrt.png |
| http://www.biologycorner.com/projects/bones/skeleton3/upleglt.png | http://www.biologycorner.com/projects/bones/skeleton3/skull.png | http://www.biologycorner.com/projects/bones/skeleton3/torso.png | http://www.biologycorner.com/projects/bones/skeleton3/lowarmrt.png |
| http://www.biologycorner.com/projects/bones/skeleton3/uparmrt.png | http://www.biologycorner.com/projects/bones/skeleton3/uplegrt.png | http://www.biologycorner.com/projects/bones/skeleton3/pelvis_female_orig.png | http://www.biologycorner.com/projects/bones/skeleton3/vert.gif |
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Bones Set 4

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| http://www.biologycorner.com/projects/bones/skeleton4/lowarmlft.png | http://www.biologycorner.com/projects/bones/skeleton4/torso.png | http://www.biologycorner.com/projects/bones/skeleton4/lowarmrt.png |
| http://www.biologycorner.com/projects/bones/skeleton4/pelvis_female_orig.png | http://www.biologycorner.com/projects/bones/skeleton4/uplegrt.png | http://www.biologycorner.com/projects/bones/skeleton4/lowleglt.png |
| http://www.biologycorner.com/projects/bones/skeleton4/upleglt.png | http://www.biologycorner.com/projects/bones/skeleton4/uparmrt.png | http://www.biologycorner.com/projects/bones/skeleton4/skull.png |
| http://www.biologycorner.com/projects/bones/skeleton4/lowlegrt.png | http://www.biologycorner.com/projects/bones/skeleton4/uparmlft.png | http://www.biologycorner.com/projects/bones/skeleton4/vert.png |