

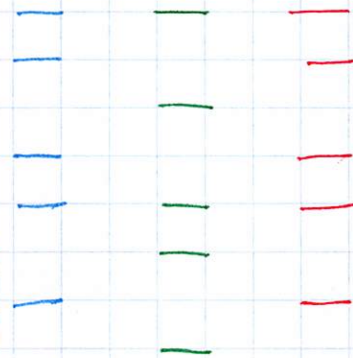
FIVE STAR. ★★★★★

matches  
50%

A hand-drawn diagram of a 3D coordinate system on a grid background. The x-axis is horizontal, the y-axis is vertical, and the z-axis is diagonal. A yellow rectangular prism is drawn in the first octant, with its edges labeled with 'x', 'y', and 'z'.

matches  
100%

S2

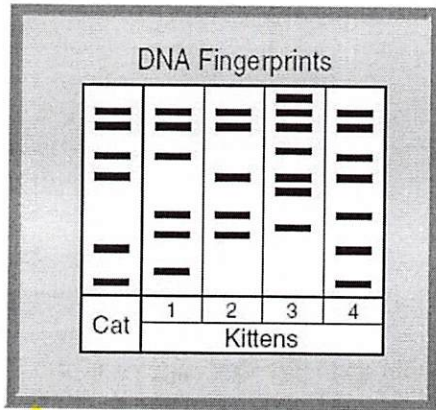
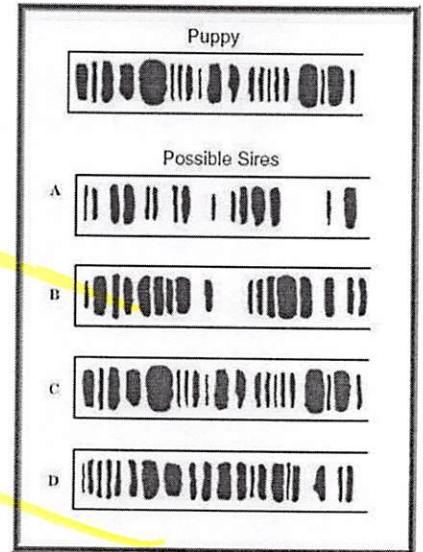


# DNA Fingerprinting & Paternity Worksheet

Name: \_\_\_\_\_

1. The DNA fingerprints were made from blood samples taken from a puppy and four possible sires of this puppy in an effort to determine the puppy's pedigree. According to this information, which sire was probably the father of this puppy? Remember, a child must share at least 50% of its DNA with each of its parents. So, you are looking for the father with the closest match to the puppy.

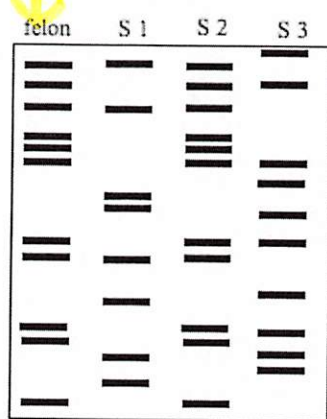
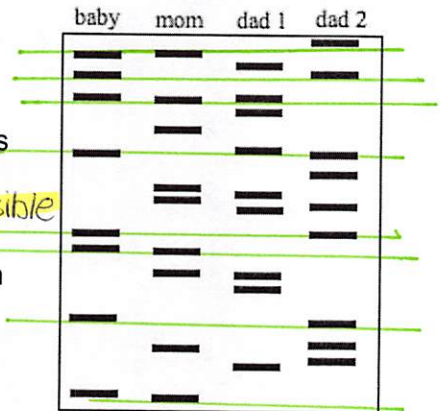
ANSWER: \_\_\_\_\_



2. The picture shows a segment of DNA from a cat and 4 possible offspring from that cat. Which of these is most likely the kitten from that cat's litter?

ANSWER: \_\_\_\_\_

3. Mrs. Smith has a baby named Tyra. She believes one of two men can be the father of her child. A paternity test is done and the results are shown here. Which of the 2 men is baby Tyra's father?

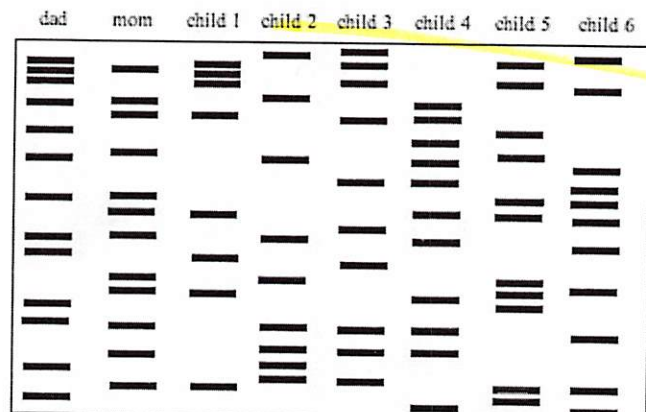
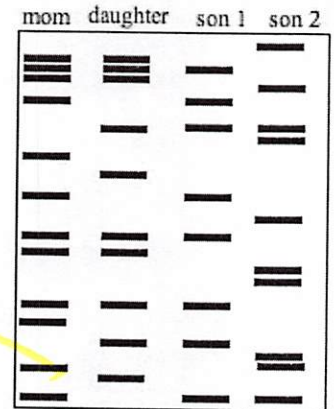


4. Lt. Russ is investigating a murder scene. The felon was scratched by his victim & some of his skin cells were found under the victim's fingernails. A DNA test was performed. To which of the suspects do the skin cells collected from under the fingernails of the victim belong?

have to match 50% to one possible dad

5. The millionaire, Mr. Big, has just died. He has left behind a wife, daughter and a large inheritance. The

news of his death has brought forth 2 men who claim to be the long lost son of Mr. & Mrs. Big. Before Mr. & Mrs. Big were married they had an illegitimate child and had placed him up for adoption. They had tried to find him after they became wealthy but had no luck in locating him. A DNA sample was taken from Mrs. Big, the Big daughter and the two men who claim to be the long lost son. Which, if any, of the men are telling the truth?



6. Mr. & Mrs. Jones just gave birth to fraternal twins- Bob and Jane. Unfortunately, the nurse has confused the Jones twins with 4 other babies. The doctors took samples of DNA from each of the babies and Mr. & Mrs. Jones. Which of the 6 children are Mr. & Mrs. Jones twins?