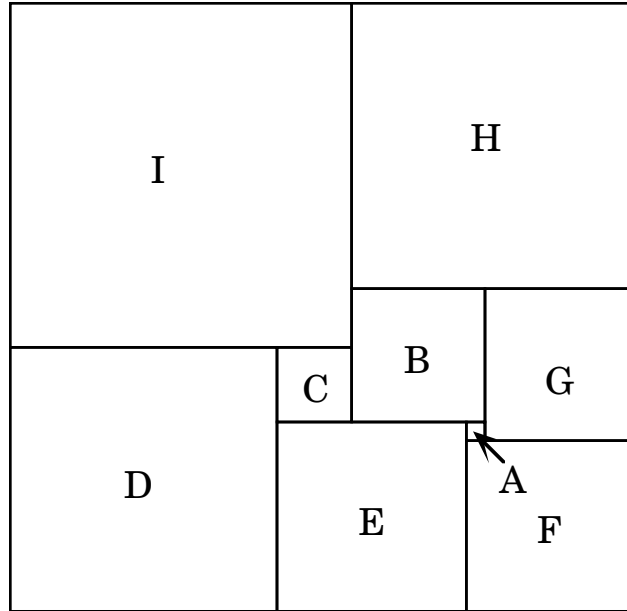


BP-38.

DIRECTIONS: In the figure below, the area of square G is 64 square units and the area of square F is 81 square units.



Below the figure are two examples of writing **justifications** for finding the areas of other squares. Study these, then write similar justifications for squares H, E, and C.



Justification for square A:

If the area of square G is 64 square units, then the length of a side is 8 units.

If the area of square F is 81 square units, then the length of a side is 9 units.

Since the side length of F minus the side length of G = 1, the length of a side of A is 1.

Therefore, the area of A is 1 square unit.

Justification for square B:

If the length of a side of G is 8 units, and the length of a side of A is 1 unit, then the length of a side of B is 7 units.

Therefore, the area of B is 49 square units.

- Write a justification for finding the area of square H. You may use any of the conclusions from the PREVIOUS justifications.
- Write a justification for finding the area of square E. You may use any of the conclusions from the PREVIOUS justifications.
- Write a justification for finding the area of square C. You may use any of the conclusions from the PREVIOUS justifications.
- Find the areas of D and I. Justify your answers.