Name: $\qquad$ Quiz Score: $\qquad$

## Quiz 7: Version A

USE YOUR CUBE!

## All MOVES are viewed from the FRONT.

1. (6 pts) Rubik's Cube has $\qquad$ center cubies, $\qquad$ edge cubies, and $\qquad$ corner cubies.
2. (4 pts) Circle the correct answer for each of the following.
(a) Is it possible to move an edge cubie into a corner position? Yes No
(b) Is it possible to move a center cubie into a corner position? Yes No
3. (7 pts) Let $Z=$ cubie labeled $D E$ after successive applications of $Z$. Label the new position and orientation of the two cubies with $A, B, C, D$, and $E$ (if visible on the upper, front, or right faces pictured).


Original


After $Z$


After $Z^{2}$


After $Z^{3}$
4. (3 pts) Now solve the upper (white) face of your cube and show it to me when you turn in your quiz. (Make sure I mark your score for this problem on your quiz before you leave.) Bonus points for solving the whole upper layer!

