MATH 11008 Circle one: 9:55 / 12:05

Name: \_\_\_\_

\_\_\_\_\_ Quiz Score: /20

## Quiz 7: Version A

USE YOUR CUBE!

## All MOVES are viewed from the FRONT.

1. (6 pts) Rubik's Cube has \_\_\_\_\_ center cubies, \_\_\_\_\_ edge cubies, and \_\_\_\_\_ 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?  $Y_{\rm ES}$  No

3. (7 pts) Let  $Z = \square$ . We wish to trace the movement of the corner cubie labeled ABC and the edge cubie labeled DE 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).



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!