Angle Investigation, Origami Duck

Before completing, after stage 3 , unfold the square to the shape below:


1. CE bisects $\angle F E D$. Write a congruence statement based on this conclusion.
2. GE bisects $\angle C E D$. Write a congruence statement based on this conclusion.
3. Determine the measures of the following angles, AND give a geometric reason or explanation that supports your answer:
a. What is $\mathrm{m} \angle \mathrm{CED}$ ? $\qquad$
b. What is $\mathrm{m} \angle \mathrm{GED}$ ? $\qquad$
c. What is $\mathrm{m} \angle \mathrm{EGD}$ ? $\qquad$
d. What is $\mathrm{m} \angle \mathrm{CGE}$ ? $\qquad$
e. What is $\mathrm{m} \angle \mathrm{CIG}$ ? $\qquad$
