The grading of this quiz will focus on clear argumentation.

(a) Clearly prove that $b \mid a$, $b \mid (a + c) \implies c \in b\mathbb{Z}$.

(b) If a = 120 and b = 4, does $b \mid a$? Does $2b \mid a$?

(c) Show that $b \mid a \implies 2b \mid a$. Clearly explain the logic of your answer.

Quiz 1