MASS OF CART 1 : 220.7 g

$$220.7 \, \cancel{g} \left(\frac{1 \text{ kg}}{1000 \, \cancel{g}} \right) = .2207 \text{ kg}$$

MASS OF CART 2 : 179.9 g $\longrightarrow$ .1799 kg

VELOCITY CART 1 BEFORE:

    DIST 80cm $\longrightarrow$ .8 m

    TIME 1.35 s

VELOCITY CART 1 AFTER:

$$0 \, \frac{m}{s}$$

VELOCITY CART 2 AFTER :

    DIST : 56cm $\longrightarrow$ .56 m

    TIME : 1.57 s

VELOCITY CART 2 BEFORE : $0 \, \frac{m}{s}$