7. a) $z = \frac{x - \mu}{\sigma}$

$\mu = 9.429166667$

$\sigma = 7.242609979$

$z = \frac{5.3 - 9.429166667}{7.242609979}$

$Q_1 = 4.4$

$Q_2 (MED) = 8.25$

$Q_3 = 11.95$

$z = -0.57$

b) $Q_1 = 4.4$, $Q_2 = 8.25$ $Q_3 = 11.95$

c) $IQR = Q_3 - Q_1 = 11.95 - 4.4 = 7.55$

d) $LF = Q_1 - 1.5(IQR)$

$= 4.4 - 1.5(7.55)$

$= -6.925$

$UF = Q_3 + 1.5(IQR)$

$= 11.95 + 1.5(7.55)$

$= 23.275$

38.6

OUTLIER