

Question 8

$$(a) \quad \bar{x} = \frac{659}{15} = 43.9$$

$$s = \sqrt{\frac{1170.933}{15}} = 10.866$$

$$(b) \quad P(X > 46)$$

$$z = \frac{46 - 43.9}{10.866} = 0.1902$$

$$P(z > 0.1902) = 0.423$$