Relationship Between Beer Tax Revenues and Population

Population, X (millions)	Beer Tax Revenue, Y (millions)
12.4	146
6.1	85
2.4	21
4.3	47
9.5	115
7.6	90

$\bar{X} =$ _____ $\bar{Y} =$ _____

$X_i - \bar{X}$	$(X_i - \bar{X})^2$	$Y_i - \bar{Y}$
12.4 - _____ = _____	_____	146 - _____ = _____
6.1 - _____ = _____	_____	85 - _____ = _____
2.4 - _____ = _____	_____	21 - _____ = _____
4.3 - _____ = _____	_____	47 - _____ = _____
9.5 - _____ = _____	_____	115 - _____ = _____
7.6 - _____ = _____	_____	90 - _____ = _____

$(X_i - \bar{X})(Y_i - \bar{Y})$

_____ x _____ = _____
_____ x _____ = _____
_____ x _____ = _____
_____ x _____ = _____
_____ x _____ = _____
_____ x _____ = _____

$\sum (X_i - \bar{X})(Y_i - \bar{Y}) =$ _____

$\sum (X_i - \bar{X})^2 =$ _____

$b = \dfrac{\sum (X_i - \bar{X})(Y_i - \bar{Y})}{\sum (X_i - \bar{X})^2} =$ _____

$a = \bar{Y} - b\bar{X} =$ _____

$\hat{Y} =$ _____ + _____ X