

## Question #278

Key: A

Based on the information given

$$0.21 = \frac{36}{n} + \frac{0.4x}{n}$$

$$0.51 = \frac{36}{n} + \frac{x}{n} + \frac{0.6y}{n}$$

$$n = 200 + x + y.$$

Then,

$$0.21(200 + x + y) = 36 + 0.4x$$

$$0.51(200 + x + y) = 36 + x + 0.6y$$

and these linear equations can be solved for  $x = 119.37$ .