$438.30 = P \cdot r \qquad r = \frac{438.30}{P}$

(myron says 4383 is more than he will get/principal)

$A = P\left(1+\frac{r}{n}\right)^{nt} \qquad P < 4383 \qquad P = \$3455.48$ ← myron's money

$11,406.14 - 3455.48 = 7950.66$

Gained Interest $= \$7950.66$ ← Philomena

$11,406.14 = P\left(1+\frac{r}{n}\right)^{nt}$

$11,406.14 = P\left(1+\frac{438.3}{P(1)}\right)^{1(10)}$

$11,406.14 = P\left(1+\frac{438.3}{P}\right)^{10}$

$11,406.14 = P\cdot\left(1+\frac{438.3}{P}\right)^{10}$

$\frac{11,406.14}{P} = \left(\frac{P+438.3}{P}\right)^{10}$

$\log 11,406.14 - \log P = \log\left(\frac{P+438.3}{P}\right)^{10}$

$\log 11,406.14 - \log P = 10\log(P+438.3) - 10\log P$

$\log 11,406.14 = 10\log(P+438.3) - 9\log P$

$\log 11,406.14 + 9\log P = 10\log(P+438.3)$

$\log\left(P^9(11,406.14)\right) = \log\left((P+438.3)^{10}\right)$

$P^9(11,406.14) = (P+438.3)^{10}$

$0 = (P+438.3)^{10} - 11,406.14(P^9)$

$P \approx \$3455.48$, ~~4325.06~~ extraneous $P < 4383$

In Conclusion, Myron will keep $\$3455.48$ and Philomena will get $\$7950.66$.