Exercise3

$$\begin{array}{lll}
 & \text{2.1 K} = 36210 \\
 & \text{4 (36210)} = \text{4 (3621).4 (10)} \\
 & = \text{4 (1207) } \text{4 (3).4 (5).4 (2)} \\
 & = \text{4 (17) } \text{4 (5).4 (5).4 (2)} \\
 & = 26.70-2.4-1 = 8360
\end{array}$$

3)
$$d = 21$$

 $\varphi(21) = \varphi(7) \varphi(3) = 6 - 2 = 12$

4)
$$m = 3$$

 $\varphi(3) = 2$

5)
$$x = 45$$

 $f(45) = f(5) \cdot f(9)$
 $= f(5) \cdot f(3^{4})$
 $= 4 \cdot 3^{4} \left(2 - \frac{1}{3}\right) = 4 \cdot 9 \cdot \frac{2}{3}$
 $= 24$