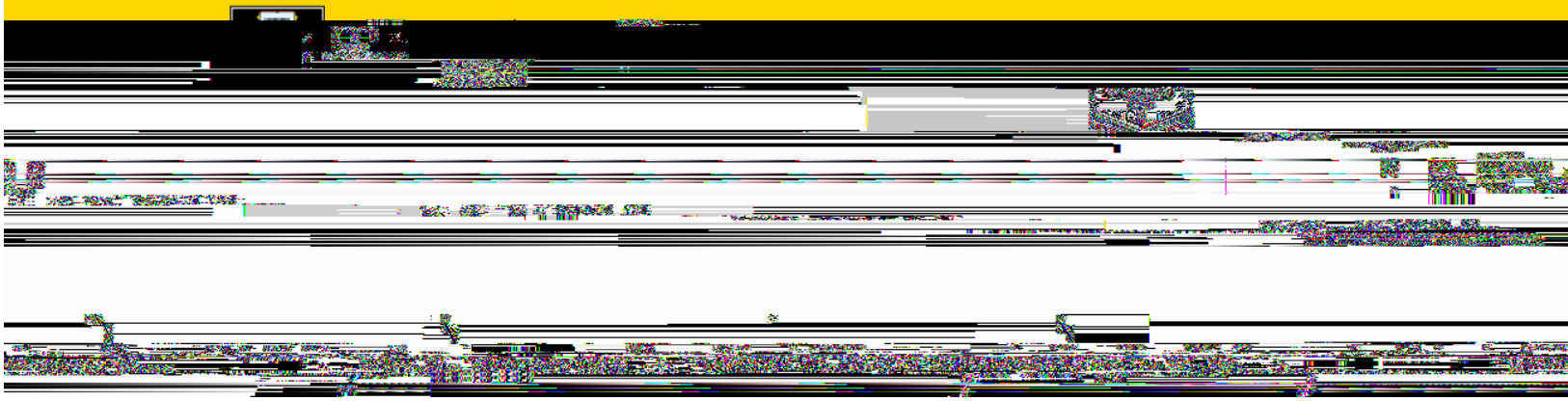

Errata: Solution Sheet 4, May 25, 2012

Answers

1. $f(4) = 6$. Generally, $f(n) = (n-1)!$
2. $(22) * (35) = 770$ is the only combination where both numbers are over 18.
3. (a) $50 + 20 - 10 = 60$. This is the number of numbers *with* a factor in common with 100. So the answer should be $100 - 60 = 40$.

   (b) $25 * 102 + 10 * 105 - 5 * 110 = 3050$. This is the sum of numbers *with* a factor in common with 100. So the answer should be $1 + 2 + \cdots + 100 - 3050 = 2000$
4. $x = 0;;$