Each problem is worth 5 points. For full credit indicate clearly how you reached your answer.

1. Simplify the expression  $(x^2y^3z)^3$  and write your answer with only positive exponents.

2. Solve the equation  $\frac{3(n-2)}{5} + \frac{2n+3}{6} = \frac{4n+1}{9} + 2$