



EX 4. Dr. Elliot is growing cells in lab dishes. She starts with 108 cells Monday morning and then removes 20 of these for her experiment. By Tuesday the remaining cells have multiplied by 1.5. She again removes 20. This pattern repeats each day in the week. a. Write a recursive formula for the number of cells Dr. Elliot finds each day before she removes any. Cn = # of cells beginning each day  $C_{n+1} = 1.5(C_n - 20)$ b. Find the number of cells she will find on Friday morning. M: 108 T · 1.5(108-20)=132 W. 1.5(132-20)=168 Th: 1.5(168-20)=222 Fri: 1.5(222-20)=303 cells

