2.3: Possible Activities

107/1126 Activities: Billy the Bouncing Ball, Sequences: Linear/Exp., Fold to the Moon (including “halfway” question). G&C Exponential equations? Given compound continuously: By what % did it change this year?

FM: 7.1: Doubling via Table, graph

#5: Relative growth rate = 80% and f(4) = 50000. Find f(0).

#7: Compare quarterly, daily, continuously

#9: 25000(1.04)^x modeling salary: What dos each number mean? (N- Do for Compound monthly?)

S-Z: p. 420: 25(4/5)^x: Each # means for value of car (N- Need to present with b = fraction, decimal)

p. 421: Newton’s Law of Cooling: What does HA mean? (better in APC)

p. 425: Logistic Growth?

p. 485: Given 2 points, find exponential formulas (#25-26).

Active Reading Approach: 3.1: Starts with linear vs. exponential (ant vs. #. Repeated addition vs. repeated multiplication)

3.2: Stock went up by 20% over 5 years. By what % per year?

# times growth factor occurs

3.4: Half?doubling life

3.4.18: Is it exponential or linear?

3.4.26: Interpreting numbers in formula.

APC: p. 153-200

p. 158: 3.1.3: Car’s value at 2 times: do if linear, do if exponential

p. 161: #4 Cruise: How many in the past rather than future.

**p. 163 #10: Derive from table (Newton’s law of cooling with end behavior due to situation). Also on p. 165 and p. 169 (constant ratio among temperatures). Also p. 171: Find a, b, c with info.**

p. 163 #11: Drug in body.

p. 174 (HW): #4, 5.

3.3: Derive e.

Calc-Medic: 3.1: Bouncing ball.

3.3 Develop e from more and more compoundings

MFG: 4.1: Hw #17: ¾ of size every TWO weeks

#18: Given half-life

#42: Given 2 values of car.

#61: True/False: If grow by 48% over 6 years, then 8% each year.

#68-72: Linear growth vs. exp. Growth.

4.5: Exp. Models

4.95: Exp. And other models from 2 points.

Finding half/double lifes (need logs for exact).