Activator

Given this table, What is the beginning value (y-intercept)? B = 4

Is this table linear or exponential ? Exponential Why? Repeated Multiplication



Today's Objective Unit 6 Lesson 7

Students will be able to write exponential equations and functions.







Today's New Vocab (2 of 4) Write the exponential function. Evaluate for F(3). **F(x)** X $F(x) = B (C)^{x}$ B = 44 $F(x) = 4 (2)^{x}$ C = (2)8 $F(3) = 4 (2)^3$ 16 Page #25 2 F(3) = 4(2)(2)(2)Lesson 6.7 32 3 F(3) = 32





Group Work Questions



<u>Directions:</u> All groups, please do all of the questions. Use your notes from last class to help you. [Ask 2 people before you ask me.]

Last time, we did Lesson 6.7 Notes.

2nd Stop @ 9:03 ^{3rd} Stop @ 10:06 *One person from each group will present one question.

Work Period

- The manufactures of Hess toys cost \$125 to design
- and \$5.25 manufacture each toy. C(t) means the cost of
- the toys. Write the cost function. Total cost for 4-toys? Linear or exponential? Linear
 - $\begin{array}{l} C(t) = mt + b \\ C(t) = 5.25t + 125 \\ C(4) = 5.25(4) + 125 = $146 \end{array}$

Exit Ticket

- The Hess company wants to know how
- much it will cost to manufacture 250 toys.
- c(t) = \$5.25t + \$125 c(250) = \$5.25(250) + \$125Page #26 Lesson 6.7
- c(250) = \$1312.50 + \$125 c(250) = \$1437.50 It will cost \$1437.50
 - to manufacture 250 toys.