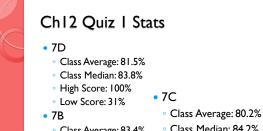
Thursday, January 31, 2013

- Agenda:
- TISK, No MM HW Check
- Lesson 12-6: Exponential Functions part 1
- Homework: Ch 12 HW Packet #2, §12-6 problems
- (We will also work on these problems tomorrow.) TISK Problems
- Write an equation in slope-intercept form for a line that passes through the points (-2, 1) and (4, 7). Ι.
- Miss Witter places the names of 28 students in a hat. Twelve of the names are girls and the rest are boys. Find the probability of choosing a boys' name then a girls' name if she doesn't replace the first name drawn. 2
- Write and solve a proportion: Eighteen is what percent of 40? 3.



- Class Average: 83.4%
- Class Median: 88.1%
- High Score: 100%
- Low Score: 49%
- Class Median: 84.2%
- High Score: 100%
- Low Score: 41%

Homework Check

13.
$$f(x) = \frac{5}{3}x - 2$$

14. $f(x) = -2x + 4$
15. $f(x) = 3x + 2$
16. $f(x) = \frac{1}{2}x + 2$
17. $s(h) = 400 + 15h$
 $s(7) = 505$
18. $w(m) = 1200 - 45m$
 $w(15) = 525$

§12-6 Exponential Functions

- Another type of function is called an *exponential function*.
 - Exponential functions either get really big, really fast or they get really small, really fast
- How can you tell if a function is exponential?
 - Look at its graph.
 - Look at its equation.

§12-6 Exponential Functions

• Equations that are exponential use the following rule:

$$\circ f(x) = p \cdot a^x$$

• x has to be in the **exponent**!

 $\cdot a$ and p are numbers and

 $\cdot a$ is greater than 0 (and not equal to 1)

§12-6 Exponential Functions

• Exponential functions can look like one of the following graphs:

