Warm Up

1. Convert the following to exponential form:

Inx = 6
$$\gamma = \ell$$

2. Solve the following: $\log(4x) = \log(x + 15)$ 4x = x + 15 3x = 15 x = 5

formula: $5x^2 + 3x + 5 = 0$ $\chi = \frac{3 \pm i \sqrt{91}}{|0|}$

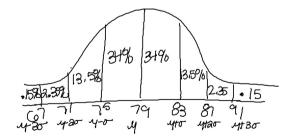
4. Identify the 250th term of the following sequence: 6, 9, 12 $a_n = 6 + (n-1)3$

5. Identify the 12th term of the following

sequence: 3, 6, 12 ... $a_{n} = 3(a^{n-1})$ $a_{n} = 6144$

Example #1

The data for the log quiz was normally distributed. The average score was a 79 with a standard deviation of 4. Represent this data using the normal curve.

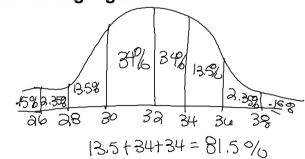


Write down 2 observations for the example above.

Review of the Normal Curve

Example #2

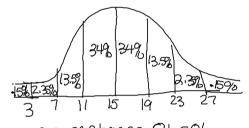
Steph Curry is currently averaging 32 points per game with a standard deviation of 2 points. What percentage of the time does he score between 28 - 34 points during a game?



Example #3

At Vance High School, 350 students took the ACT last March. The average score was a 15 with a standard deviation of 4. How many students

scored between a 11 - 23?



$$\frac{part}{whole} = \frac{9/6}{100}$$
 $\frac{x}{350} = \frac{81.5}{100}$
 $100x = 28525$
 $x = 285.26$