

Monday, 3.14

1. If $8a^6b^3 < 0$, then which of the following CANNOT be true?
- F. $b < 0$
 - G. $b > 0$
 - H. $a = b$
 - J. $a < 0$
 - K. $a > 0$

Tuesday, 3.15

1. If $\log_4 x = 3$, then $x = ?$
- A. $\frac{1}{\log_{12}}$
 - B. $4 \log^3$
 - C. 12
 - D. 64
 - E. 81

Wednesday 3.16

1. Gary has turtles, cats, and birds for pets. The number of birds he has is 4 more than the number of turtles, and the number of cats is 2 times the number of birds. Of the following, which could be the total number of Gary's pets?
- F. 14
 - G. 18
 - H. 20
 - J. 22
 - K. 26

Thursday, 3.17

1. On a map, $\frac{1}{4}$ inch represents 12 miles. If a road is 66 miles long, what is its length, in inches, on the map?
- A. $5 \frac{1}{2}$
 - B. $5 \frac{1}{8}$
 - C. $1 \frac{1}{2}$
 - D. $1 \frac{3}{8}$
 - E. $\frac{7}{8}$

Friday 3.18

1. If $n^x \cdot n^8 = n^{24}$ and $(n^6)^y = n^{18}$, what is the value of $x + y$?
- A. 7
 - B. 9
 - C. 12
 - D. 19
 - E. 27