4. Find the middle term for $(3x^2 + 5y)^8$.

5. Find the next two terms in the sequence of $\{ 6, -2, -10, \ldots\ldots\}$

6. What is the common ratio for the sequence of $\{ 7, 2, 4/7, \ldots\ldots\}$

7. Find the geometric means for $3, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, \underline{\hspace{1cm}}, 1/27$

8. To the nearest tenth, what would the interest rate need to be for $4500 to grow to $6000 in 3 years?

9. Larry and Lucy both have decided to invest $4000. Larry's bank has an interest rate of 7.5%. Lucy's bank has an interest rate of only 5.8%. How much more money will Larry have when Lucy's money has doubled? Round your time to the nearest tenths.

10. If a amphitheater seats 16 people on the front row and 3 more people on each row, how many people would be able to sit on the 32nd row?

11. Use a calculator to find the standard deviation of the following numbers: (Round to the nearest tenths)
   16, 24, 88, 95, 45, 36, 65, 78, 23, 44

12. If Margie drew a total interest of $563 in 4 years after investing $3000. What interest rate did the bank give her? (Round the nearest tenths)