1. How many different ways are there to form committees of 4 if the club has 25 members?

2. How many different ways are there to form President, Vice-President, Treasurer, and Secretary if the club has 25 members?

3. How many ways can the letters in the word ELECTRIC be arranged?

4. How many seven digit phone numbers can be formed if the first digit is a 6, the second digit is a 7, and the third digit cannot be a 0 or 1?

5. There are 5 Snickers, 3 3-Musketeers, and 4 Kit-Kats in a bowl. If you randomly select one, what is the probability that it will not be a Snickers?

Simplify, list any domain restrictions

6. $\dfrac{x}{x-1} + \dfrac{2x-1}{x^2-3x+2}$

7. There are 10 thin mints and 6 shortbread cookies in the cookie jar. What is the ***probability*** that Robbie reaches in and grabs 3 thin mints and 3 shortbread cookies?

8. Solve and check:

$log_2 (x-3)^2 = 2 + log_2 x$

9. Solve and graph on a number line

$-|3y-2|-5 < -9$