ANSWERS

A) _____

B) _____

C) _____

***** NO CALCULATORS ON THIS ROUND *****

A) The probability of hitting the bull's-eye of a target is 0.4 . Compute the probability of <u>missing</u> the bull's-eye three times with five shots.

B) The simplified ratio of the middle terms in the expansion of $(2x-3y)^{11}$ is $a : b$.

If $\dfrac{y}{x} = \dfrac{7}{3}$, compute ab.

C) The probability that Tom will solve a particular problem is 1/2, that Dick will solve it is 2/3 and that Harry will solve it is k. If all three try to solve the problem independently, the

probability that <u>at least two</u> of them will solve the problem is $\dfrac{3}{4}$. Compute k.