

## TI WORKSHEET

### BINOMIAL DISTRIBUTION

1. Assuming that the births of boys and girls are equally likely, calculate the probability that in a family of six children:
  - a. All the children are boys.
  - b. There are exactly 2 boys.
  - c. There are more than 4 girls.
  - d. There are more boys than girls.

To solve part a press [2nd][VARs][A:][ENTER] and enter the data. Then press [ENTER] two times and get the answer as follows.



Solve the rest of the problem by using TI.

2. 72 % of onion members are in favor of a certain change to their conditions of employment. A random sample of 5 members is taken. Find the probability that:
  - a. 3 members are in favor of the change in conditions.
  - b. At least 3 members are in favor of the changed conditions.

## REFERENCES

- Blythe, P. (2008). *Mathematics for the international student: mathematics HL (Options) / Peter Blythe... [et.al.]* Adelaide Airport, S. Aust.: Haese & Harris, 2008.