

Q.1. A fast- food concession stand sells hotdogs and hamburgers.

- Daily sales can be as high as 300 hamburgers and hot dogs combined.
- The stand has room to stock no more than 200 hot dogs and no more than 150 hamburgers.

Determine the possible combination of hamburgers and hot dogs .

Step.1. Define the variables.

Step.2.Describe the restrictions on the variables in this situation. (Domain & Range)

Step.3.Write a system of inequalities that models this situation.

Step.4. Graph the system (as explained in 6.2) to determine the solution set.

Step.5. Interpret the solution.

Q.2. A student council is ordering signs for the spring dance. Signs can be made in letter size or poster size.

- No more than 15 of each size are wanted.
- At least 15 signs are needed altogether.

Determine the possible combination of both the sizes of signs.

Step.1. Define the variables.

Step.2.Describe the restrictions on the variables in this situation. (Domain & Range)

Step.3.Write a system of inequalities that models this situation.

Step.4. Graph the system (as explained in 6.2) to determine the solution set.

Step.5. Interpret the solution.