

## Steps for Guess –n- Check

### Steps

1. Understand the question.
2. Plan how you are going to find the answer.
3. Solve the problem. Make a guess using the information given. Check to see if your guess works.
4. Look back to see if that is the only possible answer.

The game show host of Guess –n- Check said, “Mrs. Smith has 24 fish in her aquarium. There are twice as many goldfish as there are guppies. How many goldfish are in her aquarium? How many guppies are in her aquarium?”

Let’s follow the step together.

1. **Understand the questions.** How many goldfish are in her aquarium? How many guppies are in her aquarium? **What do we know?** We know that there are 24 total fish. We know that there are two types of fish in her tank. We know that there are two times as many goldfish as guppies.
2. **Plan how you are going to find the answer.** Guess and check.
3. **Solve the problem.** Guess. Try dividing 24 by 2. The number of each type of fish would be 12. Does this solve your problem? No. Try dividing 24 by 3 since there are guppies and goldfish but there’s two times as many goldfish. Twenty-four divided by three is eight. That means that eight goldfish plus eight more goldfish plus eight guppies equals twenty-four.  $8 \text{ goldfish} + 8 \text{ goldfish} = 16 \text{ goldfish}$  and 8 guppies.
4. **Look back to see if there are any other possible answers.**