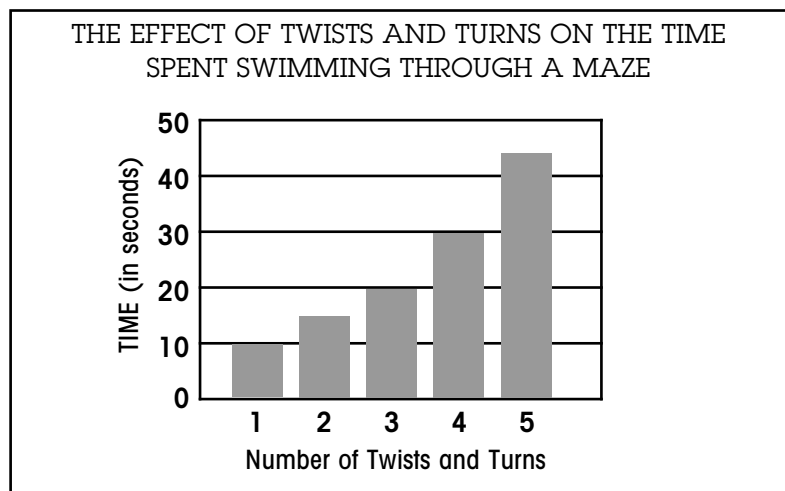


# A-maze-ing Fish

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Suppose you have a pet fish that happens to be very smart. For this year's science fair, you've decided to answer the question: *Does the number of twists and turns in a maze affect the time it takes for my fish to swim through the maze?* Using materials from around the house, you rig up a maze in the fish tank and time your fish as it swims through the maze. You time your fish against various mazes, each with a different number of twists and turns. Below is a bar graph of your results. Use the data to answer the questions that follow.

**Questions:**

1. What was your *independent variable*, or the detail that you changed on purpose?  
\_\_\_\_\_
2. What was your *dependent variable*, or the variable that changed in response to a change in the independent variable?  
\_\_\_\_\_
3. With what number of twists and turns could your fish navigate fastest?  
\_\_\_\_\_
4. Approximately how many more seconds did it take your fish to swim through a maze with five twists and turns compared to a maze with just two?  
\_\_\_\_\_  
\_\_\_\_\_
5. Based on the data shown on the bar graph, what can you conclude?  
\_\_\_\_\_  
\_\_\_\_\_

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1. Number of twists and turns
2. Time it takes for the fish to swim through the maze
3. One
4. Approximately 30 seconds
5. It takes a fish more time to swim through a maze that has many twists and turns compared with a maze that has fewer twists and turns.