Below are eight figures and eight captions. Each caption matches one of the figures. Choose the caption that best describes each figure. Write the correct caption on the line provided.

Choose from these captions:

- Identify the problem
- Make careful observations
- Gather information
- Record the data
- State a hypothesis
- Analyze the data
- Test the hypothesis
- State a conclusion

1. Record data
2. State hypothesis
3. Gather info
4. Analyze data
5. ID problem
6. Test hypothesis
7. State conclusion
8. Make careful observations
FILL IN THE BLANK

Complete each statement using a term or terms from the list below. Write your answers in the spaces provided.

supports  observe  different
problems  question  already known
data  scientific method  senses

1. To test a hypothesis, scientists may **observe** natural events.
2. When scientists research, they may find out what is **already known** about a problem.
3. Your **senses** gather information.
4. A conclusion states whether or not data **supports** a hypothesis.
5. A problem is usually stated as a **question**.
6. Scientists use certain **steps** to solve problems.
7. You solve **problems** much like scientists do.
8. Different problems can be solved in **different** ways.
9. A guide used to solve problems is called **scientific method**
10. Scientists use charts to put **data** in order.

MATCHING

Match each term in Column A with its description in Column B. Write the correct letter in the space provided.

<table>
<thead>
<tr>
<th>Column A</th>
<th>Column B</th>
</tr>
</thead>
<tbody>
<tr>
<td>a</td>
<td>1. analyze</td>
</tr>
<tr>
<td>d</td>
<td>2. scientific method</td>
</tr>
<tr>
<td>A</td>
<td>3. conclusion</td>
</tr>
<tr>
<td>B</td>
<td>4. hypothesis</td>
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<tr>
<td>C</td>
<td>5. experiment</td>
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<tr>
<td>a</td>
<td>⚫ explains the data</td>
</tr>
<tr>
<td>b</td>
<td>⚫ suggested solution</td>
</tr>
<tr>
<td>f</td>
<td>⚫ test the hypothesis</td>
</tr>
<tr>
<td>f</td>
<td>⚫ guide for solving problems</td>
</tr>
<tr>
<td>f</td>
<td>⚫ figure out the meaning</td>
</tr>
</tbody>
</table>
Put the following steps of the scientific method in the proper order.

1. Identify the problem.
2. Research the problem.
3. Observe and record.
4. Make a hypothesis.
5. Test the hypothesis.
6. Arrive at a conclusion.

Match the following terms with the correct definition.

1. hypothesis
2. control
3. variable
4. experiment
5. conclusion
6. theory
7. data

a) organized process used to test a hypothesis
b) an educated guess about the solution to a problem
c) observations and measurements recorded during an experiment
d) a judgment based on the results of an experiment
e) a logical explanation for events that occur in nature
f) used to show that the result of an experiment is really due to the condition being tested
g) factor that changes in an experiment