In Problems 1 and 2, circle True or False.

1. In this Scratch block, set `perimeter` to 10, ____________ True False

"perimeter" is a variable.

2. A computer program cannot be broken down into smaller parts. ____________ True False

3. A formula for calculating the perimeter of a rectangle is

   \[
   \text{perimeter} = \text{length} + \text{width} + \text{length} + \text{width}.
   \]

   In this formula, which word do we use to describe `length`?
   a. Loop
   b. Sprite
   c. Variable
   d. Block

4. Fill in the blanks to make conditional statements that are valid.
   a. If ________________________________, then put on a jacket.
   b. If I see a spider, then ________________________________.

5. Which statement is a conditional?
   a. If number is 10, then say "hello world".
   b. If number is 10.
   c. Repeat 2 times: Say "hello world" for 2 seconds.
   d. Say "hello world" for 2 seconds.
6 Helena wrote this code. How would you change the code so that it would use the user input for length and width of a rectangle to calculate the area of that rectangle?

```
when green flag clicked
ask "What is the length?" and wait
set length to answer
ask "What is the width?" and wait
set width to answer
set area to length * width
say "area for 2 seconds"
```

7 Paula bought her 6 friends each an ice cream cone and is taking them over to her friends. She can only carry 4 cones at once. One way to carry the cones is listed below. Write two other ways that Paula can carry the cones without dropping them.

**Example:**
- Carry 2 cones to her friends
- Carry 1 cone to her friend
- Carry 3 cones to her friends

**One Way:**

**Another Way:**
Create 2 different scripts (sets of instructions) to move the cat so that he stops at 5 on the number line. **Use only the blocks shown above.** Write or draw your scripts in the boxes.

<table>
<thead>
<tr>
<th>Script A</th>
<th>Script B</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Script A" /></td>
<td><img src="image2" alt="Script B" /></td>
</tr>
</tbody>
</table>
9. A factory makes tables. Each table has 4 legs. Write instructions to program a computer to ask for the number of tables and then say the number of legs needed. Pretend that the computer has variables named "tables" and "legs."

Your instructions: