Problem 5-115

The 5-D Process

A **scalene triangle** has three unequal side lengths. The medium-length side is 7 cm longer than the shortest side. The longest side is twice as long as the shortest side. The total perimeter is 39 cm. What are the lengths of the sides of the triangle?

**Describe/Draw:**

- 
- 
- How many columns? How do I label them?

<table>
<thead>
<tr>
<th>Define</th>
<th>Do</th>
<th>Decide</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Find the perimeter.</td>
<td>Is the perimeter 39?</td>
</tr>
</tbody>
</table>

Trial 1:

Trial 2:

Trial 3:

**Declare:**
Problem 5-116

The 5-D Process

Travis and Angela were playing a “Guess My Numbers” game. Angela told Travis, “I’m thinking of two positive numbers. The difference of my numbers is 4, and the product of my numbers is 96. What are my numbers?” Help Travis find Angela’s numbers.

**Describe/Draw:**

- 
- 
- 

**Define**

<table>
<thead>
<tr>
<th>First number</th>
<th>Second number</th>
<th>Decide</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Is the product 96?</td>
</tr>
</tbody>
</table>

**Do**

**Declare:**

| Trial 1: | | |
|----------||  |
| Trial 2: | | |
| Trial 3: | | |

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Core Connections, Course 2
Problem 5-117

The 5-D Process

The Potter Valley basketball team did not record how many baskets were made by each player during the last game. Jenny remembers that she made three times as many baskets as Grace. Alexis knows that she made six more baskets than Grace. Joan thinks that she made 4 fewer baskets than Grace. Tammy is sure that she made the same number of baskets as Joan. Altogether the five players made 40 baskets. How many baskets did each player make?

**Describe/Draw:**

- How do I label the columns?
- Who goes first?

<table>
<thead>
<tr>
<th>Define</th>
<th>Do</th>
<th>Decide</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Are there 40 altogether?</td>
</tr>
</tbody>
</table>

**Trial 1:**

**Trial 2:**

**Trial 3:**

**Declare:**