Problem Solving: Make and Test Generalizations

For 1 through 3, use the images to make a generalization and test your answer.

1. 

2. 

3. 

4. Which answer below is a good generalization about all rectangular prisms?
   A. All rectangular prisms have same sized faces
   B. All rectangular prisms have 12 edges
   C. All rectangular prisms are cubes
   D. All rectangular prisms have 1 net

5. Writing to Explain  Try to draw a triangle with 2 right or obtuse angles. What generalizations can you make about the angles of a triangle? Explain.
1. The table below shows how much money four family members spent on their vacation.

<table>
<thead>
<tr>
<th>Name</th>
<th>Amount Spent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brenda</td>
<td>$16.70</td>
</tr>
<tr>
<td>Kirk</td>
<td>$17.76</td>
</tr>
<tr>
<td>Allison</td>
<td>$61.70</td>
</tr>
<tr>
<td>Lee</td>
<td>$17.60</td>
</tr>
</tbody>
</table>

Which of the following shows the money amounts in order from greatest to least?

A. $17.60, $16.70, $61.70, $17.76  
B. $61.70, $17.76, $16.70, $17.60  
C. $16.70, $17.60, $17.76, $61.70  
D. $61.70, $17.76, $17.60, $16.70

2. Tyler made 5 gallons of lemonade for his drink stand. He put the lemonade into quart pitchers to make it easier to pour into glasses. How many pitchers did Tyler fill?
   A. 5  
   B. 10  
   C. 15  
   D. 20

3. In which number sentence does 7 make the equation true?
   A. $9 \times \square = 72$  
   B. $\square \times 8 = 56$  
   C. $4 \times \square = 48$  
   D. $\square \times 7 = 77$

4. Anil had $\frac{11}{12}$ of a pizza in the refrigerator. He then ate $\frac{5}{12}$ of the pizza. What fraction of the pizza was left? Write your answer in simplest form.

5. Taryn cuts a triangle, a square, and a pentagon out of wood. The first shape she cuts has more sides than the second but fewer sides than the third. In what order does she cut the shapes?

6. The Kings County school district has 487 fourth-grade students. Of these, 251 are girls. How many fourth graders are boys?