Shapes and Patterns and Numbers about Issues Math الملف

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Question 2

Complete the following patterns by filling in the missing numbers.

a. 0.5, 1.2, 1.9, ___, 3.3, 4.0, 4.7, ___. 6.1
b. 0.54, 0.74, 0.94, ___, 1.34, ___, 1.74, 1.94, ___

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Grade 6: Numbers, Patterns and Shapes

Answer the following questions to the best of your abilities and use the grey box on the right to record your responses and/or show your work as needed.

Question 3

Figure 1 Figure 2 Figure 3

a. If this pattern continues, how many triangles and how many trapezoids will there be in Figure 8?
b. Create a table or chart to show the pattern.
c. Identify the pattern rule.
d. Use the rule to solve the problem.

Question 4

a. Create a definition for a triangle. Don't forget to include any important information regarding: vertices, side lengths, lines of symmetry, types of triangles, etc.
b. Create a triangle with the following side lengths: 3 cm,4 cm, 5cm

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Answer the following questions to the best of your abilities and use the grey box on the right to record your responses and/or show your work as needed.

Question 5

a. Draw a line (or lines) on the parallelogram to mark where you would cut the shape in order to rearrange it into a rectangle.
b. Draw a line (or lines) on the rectangle to mark where you would cut the shape in order to rearrange it into a parallelogram.
c. Explain how you might use what you know about the are of a rectangle (l x w) to help you solve the area of a parallelogram.

Question 6

a. Create two rectangles that both have a perimeter of 20 cm, but have different areas (cm^2).
b. Create two rectangles that both have an area of 24 cm^2 with different perimeters (cm).
c. Explain what this means about perimeter and area of a rectangle.