 Investigating Relative Frequencies

Below is a Frequency Histogram displaying the number of siblings that members of a class of 20 students each have.

1. Adjust the y-axis frequency so that it displays Relative Frequency.
2. Assuming a width of each rectangle as 1, write down the areas (using Relative Frequency) in the following table.
3. What is the meaning of the area of each rectangle in the graph?

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1. What is the total of the areas?

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1. Draw on a Frequency Polygon. Is the area underneath this polygon equal to the same total as the sum of the rectangles?

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Below is a Cumulative Frequency Histogram related to the same survey of the same class for the number of siblings in each class.

1. Adjust the y-axis cumulative frequency so that it displays Relative Cumulative Frequencies.
2. What is the meaning of the area of each rectangle in the graph?

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1. Draw a cumulative frequency polygon on this graph.