

Name _____ Date _____

Study ink
1-1

Decimal Place Value

1. Researchers counted 8,912 monarch butterflies on one branch of a tree at a site in Mexico. They estimated that the total number of butterflies at the site was 1,000 times as large. About how many butterflies were at the site in all? Explain your thinking, and include a statement of the solution.

2. A student used his place value chart to show a number. After the teacher instructed him to divide his number by 100, the chart showed 28.003. Draw a picture of what the place value chart looked like at first.

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a. Explain how you decided what to draw on your place value chart. Be sure to include your reasoning about how the value of each digit was affected by the division.