Name: _____

Decimals, Percents, and Fractions

An environmentalist is a type of scientist. An environmentalist studies ways to protect the environment. One way to protect the environment is to stop people from cutting down too many trees in a forest. People cut down trees for many reasons. For example, they use trees to make paper. When too many trees are cut down, the entire forest is harmed. For example, birds and other animals lose their homes because there aren't enough trees for them to live in. Environmentalists use the word "deforestation" to describe when too many trees are cut down.
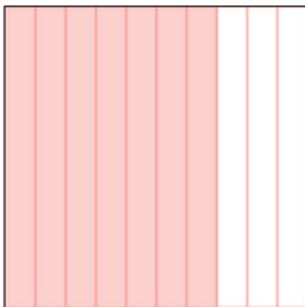
Environmentalists want to figure out how many trees are being cut down around the world. To do this, they look at data. Data are pieces of information. For example, a piece of data is that 20% of the Amazon rainforest has been cut down.

Sometimes, environmentalists draw pictures of their data. Look at the box below. The box represents the Amazon rainforest. The shaded parts in the box represent the amount of trees that have been cut down. There are 2 out of 10 boxes shaded in. This means 20% of the Amazon rainforest has been cut down. You can also write 20% as the fraction 2/10 or the decimal 0.20.

Imagine that you are an environmentalist who is learning about five different forests. You want to figure out what percentage of trees have been cut down in each forest. Below, you will see five boxes. Each box represents a forest. The shaded parts of the box represent the amount of trees that have been cut down. In the lines below the box, write the fraction, decimal, and percent of trees that have been cut down for each forest.
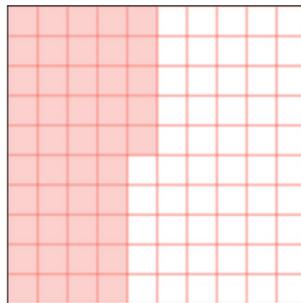
Forest 1

Fraction: _____

Decimal: _____

Percent: _____

Forest 2

Fraction: _____

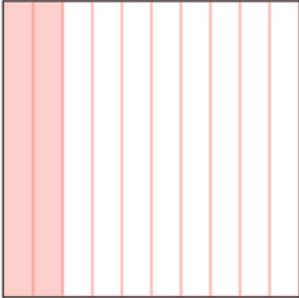Decimal: _____

Percent: _____

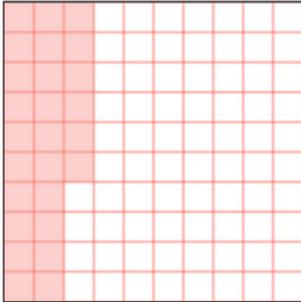### Forest 3

Fraction: _____

Decimal: _____

Percent: _____

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Decimals, Percents, and Fractions

Forest 4	Forest 5

Fraction: _____

Decimal: _____

Percent: _____

Fraction: _____

Decimal: _____

Percent: _____

Next, answer the questions below about the forests you learned about.

1. Which forest has had the most amount of trees cut down? _____

2. Which forests have had more than half of their trees cut down?_____

3. Which forest has had the least amount of trees cut down? _____

4. Has Forest 1 or Forest 2 had more trees cut down? Explain your answer.

_____

_____

_____

_____

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