# Mineral Percentage (Scantron)

*Scientists have identified more than 4000 different minerals. But only about 100 of these are common minerals, formed from the eight elements most abundant in the earth's crust. And of these 100 common minerals, fewer than 20 are found everywhere in the earth's crust.*
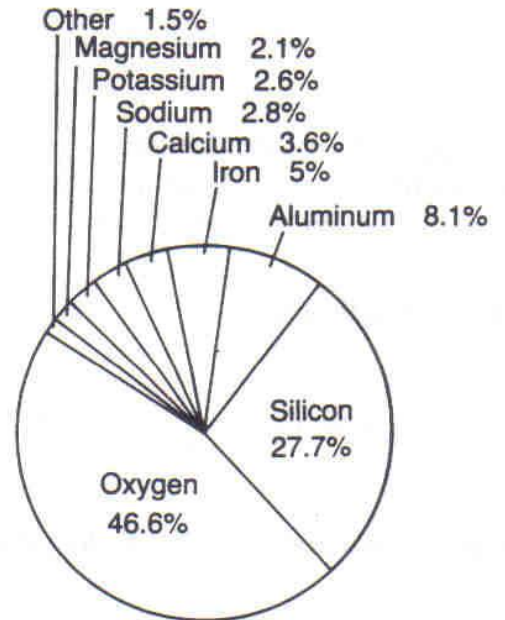
*The formula for calculating percentage is:*

$$Percentage = \frac{part}{whole} X100$$

1. Using the above information, calculate the percentage of minerals that are common minerals.
   A. 250%         B. 25%         C. 2.5%         D. 0.25%

2. What percentage of minerals are found everywhere in the earth's crust?
   A. 5%         B. 0.5%         C. 0.05%         D. 0.005%

*Use the graph to the right to answer the next three questions.*

**Elements in the Earth's Crust**

3. What percentage of the earth's crust is made up of the elements oxygen and silicon?
   A. 46.6%         C. 74.3%

   B. 27.7%         D. 58.1%

4. What is the most abundant (plentiful) element found in the earth's crust?
   A. Silicon         C. Oxygen
   B. Aluminum        D. $SiO_2$

5. What is the least abundant element found in the earth's crust?
   A. Silicon         C. Oxygen
   B. Aluminum        D. Magnesium

Other 1.5%
Magnesium 2.1%
Potassium 2.6%
Sodium 2.8%
Calcium 3.6%
Iron 5%
Aluminum 8.1%

Silicon 27.7%

Oxygen 46.6%