History of Mathematical Ideas
Quiz 12

Name:_____

You have 15 minutes to complete this quiz. If you have a question raise your hand and remain seated. In order to receive full credit your answer must be **complete**, **legible** and **correct**. Show your work, and give adequate explanations.

1. Define *cardinal number*.

A cardinal number is an ordinal number equipotent with no smaller ordinal number.

2. Give an example of a set of cardinality $\aleph_0$. Is there any set of cardinality $\aleph_1$?

$\aleph_0$ has cardinality $\aleph_0$, and $\aleph_1$ has cardinality $\aleph_1$.