

Homework #2 Geology 1020 Spring 2009

Name: _____

Due Thursday January 29 at 12:30 pm.

1. **A.** The Earth is about 4.56 billion years old. Write out this number in both long hand notation (with zeros) as well as scientific notation (powers of 10).

B. Historical records, in other words, history **written down by people**, represents approximately what percentage of geologic time?

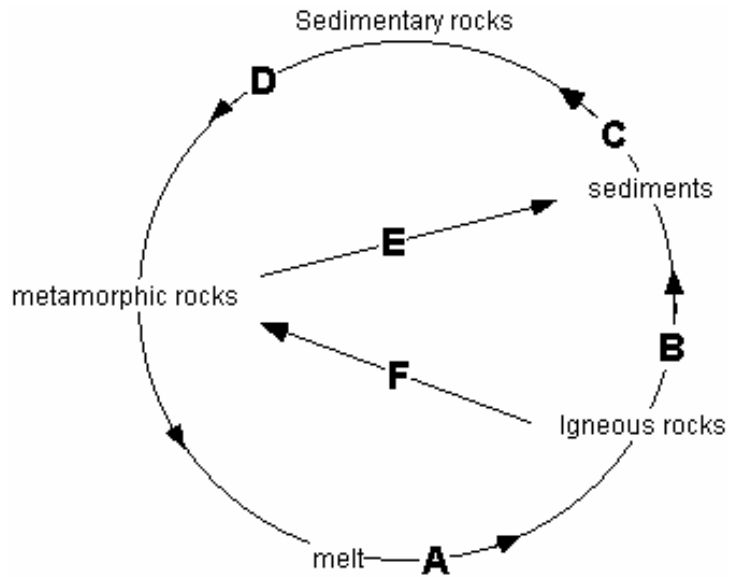
Provide your answer with the percent sign (%) AND using scientific notation; hint: historical records begin about 6000 years ago)? *Please show your work below.*

2. An undeformed sedimentary layer is _____ than the layer above and _____ than the layer below.

- A. younger.....older
- B. older.....younger
- C. younger.....younger
- D. older.....older
- E. the same age.....infinitely older

3. On the Rock Cycle diagram at right, fill in the table of factors responsible for the different paths in the diagram:

(For example, path B can be described as weathering, denudation, transport and (sedimentation)).



- A.
- B. weathering, denudation, erosion, transportation, sedimentation, etc.
- C.
- E.
- F.

4. What is the **difference** between an ATOM, an ELEMENT and an ISOTOPE?

Atom

Element

Isotope

