

Name _____

PRELAB EXERCISE ON MINERALS

1. Important mineral properties: Luster Hardness Streak
 Cleavage Fracture Crystal Form
 Other: reaction to acid, magnetic, striations, taste, feel

2. Answer:

Metallic or nonmetallic are types of which mineral property? _____

Moh's scale is a measure of which mineral property? _____

Name a mineral that is harder than glass: _____

Name a mineral that is softer than your fingernail _____

Name three **mineral properties** that are used to distinguish minerals.

3. What is the difference between cleavage and fracture?

4. What is the difference between cleavage and crystal form (crystal shape)?

5. What geometric shape is formed by 3 directions of cleavage at 90°? _____

6. Which of the following minerals will react to hydrochloric acid?

- a. quartz
- b. calcite
- c. olivine
- d. feldspar
- e. biotite mica

7. Identify the mineral that has these properties: dark non-metallic luster, softer than 5.5, one cleavage plane, white streak, black color, composed of thin, flexible sheets: (Use Figure 3.18-3.20) _____