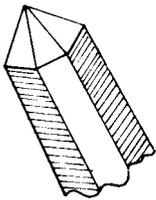


- Which statement best describes a general property of rocks?
 - Most rocks have a number of minerals in common.
 - Most rocks are composed of a single mineral.
 - All rocks contain fossils.
 - All rocks contain minerals formed by compression and cementation.
- Of the Earth's more than 2,000 identified minerals, only a small number are commonly found in rocks. This fact indicates that most
 - minerals weather before they can be identified
 - minerals have properties that are difficult to identify
 - rocks have a number of minerals in common
 - exposed surface rocks are igneous
- What do most igneous, sedimentary, and metamorphic rocks have in common?
 - They are formed from molten material.
 - They are produced by heat and pressure.
 - They are composed of minerals.
 - They exhibit crystals, banding, and distinct layers.
- Minerals are identified on the basis of
 - the method by which they were formed
 - the type of rock in which they are found
 - the size of their crystals
 - their physical and chemical properties
- Scratching a mineral against a glass plate is a method used for determining the mineral's
 - color
 - hardness
 - luster
 - cleavage

- The crystal characteristics of quartz shown in the accompanying diagram are the result of the



- internal arrangement of the elements from which quartz is formed
 - shape of the other rock crystals in the area where the quartz was formed
 - amount of weathering that the quartz has been exposed to
 - age of the quartz crystal
- Which rock is of felsic composition, low in density, light in color, and coarse grained?
 - rhyolite
 - basalt
 - granite
 - gabbro

- The data table below shows the composition of six common rock-forming minerals.

Mineral	Composition
Mica	$\text{KAl}_3\text{Si}_3\text{O}_{10}$
Olivine	$(\text{FeMg})_2\text{SiO}_4$
Orthoclase	KAlSi_3O_8
Plagioclase	$\text{NaAlSi}_3\text{O}_8$
Pyroxene	$\text{CaMgSi}_2\text{O}_6$
Quartz	SiO_2

The data table provides evidence that

- the same elements are found in all minerals
 - a few elements are found in many minerals
 - all elements are found in only a few minerals
 - all elements are found in all minerals
- Which sedimentary rock would be composed of particles ranging in size from 0.0004 centimeter to 0.006 centimeter?
 - conglomerate
 - dolostone
 - siltstone
 - shale
 - Which property best describes a rock which has formed from sediments?
 - crystalline structure
 - distorted structure
 - banding or zoning of minerals
 - fragmental particles arranged in layers
 - Most igneous rocks form by which processes?
 - melting and solidification
 - heat and pressure
 - erosion and deposition
 - compaction and cementation
 - Which characteristic of rocks tends to increase as the rocks are metamorphosed?
 - density
 - porosity
 - permeability
 - number of fossils present

13. What is the main difference between metamorphic rocks and most other rocks?

- 1) Many metamorphic rocks contain only one mineral.
- 2) Many metamorphic rocks have an organic composition.
- 3) Many metamorphic rocks exhibit banding and distortion of structure.
- 4) Many metamorphic rocks contain a high amount of oxygen-silicon tetrahedra.

14. Which statement about the formation of a rock is best supported by the rock cycle?

- 1) Magma must be weathered before it can change to metamorphic rock.
 - 2) Sediment must be compacted and cemented before it can change to sedimentary rock.
 - 3) Sedimentary rock must melt before it can change to metamorphic rock.
 - 4) Metamorphic rock must melt before it can change to sedimentary rock.
-

Answer Key
[New Exam]

1. 1

2. 3

3. 3

4. 4

5. 2

6. 1

7. 3

8. 2

9. 3

10. 4

11. 1

12. 1

13. 3

14. 2
