



Name _____ Class _____ Date _____

1 Which statement is **best supported** by this scale?

Mohs' Hardness Scale	
1 Talc	6 Feldspar
2 Gypsum	7 Quartz
3 Calcite	8 Topaz
4 Fluorite	9 Corundum
5 Apatite	10 Diamond

Approximate Hardness of Common Objects	
fingernail (2.5)	glass (5.5)
copper penny (3.5)	steel file (6.5)
iron nail (4.5)	streak plate (7.0)

- A A fingernail will scratch calcite, but not quartz.
- B A fingernail will scratch quartz, but not calcite.
- C A piece of glass can be scratched by quartz, but not by calcite.
- D A piece of glass can be scratched by calcite, but not by quartz.

3 Which mineral is **white or colorless**, has a **hardness of 2.5**, and splits with **cubic cleavage**?

- A calcite
- B halite
- C pyrite
- D mica



4 The diagrams below show the crystals of four different rocks viewed through the same hand lens. Which crystals most likely formed from molten material that cooled and solidified **most rapidly**?



PREVIEW

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7 The mineral is very hard, very dense, contains large amounts of iron, and has a regular arrangement of atoms.



- B pyrite
- C halite
- D pyroxene



9 The photograph below shows a broken piece of the mineral **calcite**. The calcite breaks in **smooth, flat surfaces** because calcite



- A is very dense
- B is very soft
- C contains certain impurities
- D has a regular arrangement of atoms

10 A student incorrectly measured the volume of a mineral sample as **83 cubic centimeters** when the **actual volume** was **89 cubic centimeters**. What was the student's **approximate percent deviation** (percentage of error)?

- A 6.7%
- B 7.2%
- C 9.3%
- D 14.8%



ANSWER KEY

Which statement is **best supported** by this scale?

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(c)

The **hardness** of these minerals is **most closely related** to the

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Approximate Hardness of Common Objects	
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copper penny (3.5)	steel file (6.5)
iron nail (4.5)	streak plate (7.0)

- A mineral's color
- B mineral's abundance in nature
- C amount of iron the mineral contains
- D internal arrangement of the mineral's atoms

(d)

Which mineral is **white or colorless**, has a **hardness of 2.5**, and splits with **cubic cleavage**?

- A calcite
- B halite
- C pyrite
- D mica



(b)

The diagrams below show the crystals of four different rocks viewed through the same hand lens. Which crystals most likely formed from molten material that cooled and solidified most rapidly?



(d)



PREVIEW

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- C contains large amounts of iron
- D has a regular arrangement of atoms



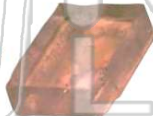
- C halite
- D pyroxene



The photograph below shows a broken piece of the mineral **calcite**.

The calcite breaks in **smooth, flat surfaces** because calcite

- A is very dense
- B is very soft
- C contains certain impurities
- D has a regular arrangement of atoms



(d)

A student incorrectly measured the volume of a mineral sample as **83 cubic centimeters** when the **actual volume** was **89 cubic centimeters**. What was the student's approximate **percent deviation** (percentage of error)?

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(a)