

INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

**A)**

**Match each item with the correct statement. There is one extra which you won't need.**

- a) Cleavage
- b) Gem
- c) Magma
- d) Crystal
- e) Fracture
- f) Luster
- g) Ore
- h) Streak

- 1) Molten material found beneath Earth's crust
- 2) Measure of how easily a mineral can be scratched
- 3) The way a mineral reflects light from its surface
- 4) Mineral that contains silicon and oxygen
- 5) Valuable mineral prized for its rarity and beauty
- 6) Solid in which the atoms are arranged in repeating pattern
- 7) Property of breaking with rough or jagged edges
- 8) Property of splitting along one or more flat planes evenly and easily
- 9) Mineral that contains a useful substance that can be mined for profit

**What does the extra statement describe ?**

**Find these verbs in the statements above.**

Křemík

Užitečný

Vzor

Vlastnost

Hrana

Povrch

Škrábat

Výjimečnost

Pevný

Pod

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**B) Decide if the statement is true or false, correct false statements.**

- a) Gems are prized for their availability and beauty.
- b) Mineral crystals may begin to precipitate out of a solution that has become saturated.
- c) The most reliable way to identify a mineral is by using a combination of several tests.
- d) Minerals form from cooled magma and from elements from gases.
- e) There are at least 3000 known minerals in Earth's crust.
- f) Minerals can be identified based on their physical and chemical properties.
- g) Although a few minerals are composed of single elements, most are made of compounds.
- h) The most common minerals, feldspar and quartz, are carbonates.
- i) The classification of a mineral as an ore does not change once it has been mined.
- j) Trace elements in a mineral do not affect the colour or the value of mineral.

**Translate :**

It has been mined

Trace elements

Common minerals

Based on

Known minerals

Reliable way

Solution

a few minerals

saturated

Earth's crust

**Find two names of minerals in the text and translate.**

**Write names of three minerals composed of single elements.**

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**C) Complete each sentence.**

- a) When flint and opals break, they have a unique.....with arclike pattern.
- b) Mica has perfect .....in one direction, it breaks in sheets.
- c) A mineral, such as salt, is naturally occurring but....., in contrast to sugar which comes from plants.
- d) A mineral's.....rarely changes, but sometimes does not match its external colour.
- e) Mohs scale is used to compare the..... of minerals.
- f) .....make up the most common mineral group.
- g) .....is described as either metallic or nonmetallic.
- h) A mineral can take the shape of one of the six major.....systems.
- i) Geologists commonly use.....as a measure of density for accurate identification of a mineral.
- j) When compounds in cooling.....no longer move freely, they may interact chemically to form minerals.

**D) Multiple choice**

- a) Ores near Earth's surface generally are obtained from
  - open-pit mines
  - underground mines
  - water with dissolved minerals
  - waste-removal facilities
- b) Silver, gold and copper have shiny surfaces and they are said to have
  - metallic luster
  - dull luster
  - waxy luster
  - nonmetallic luster
- c) The most abundant elements in Earth's crust are
  - oxygen and silicon
  - aluminium and potassium
  - oxides and carbonates
  - halite and coal

**Translate part c :**