

## True or False

Follow the instructions to complete the activity.

NAME

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Using information from *Rocks and Gems*, verify whether the following statements are true or false. Check your answers in the book. List the page number where you found the information beside your answer.

### Statement 1

Earth's crust is split up into giant sections called tectonic plates.

☐ True

☐ False

Page  
Number

### Statement 2

Diamonds are the softest of all gemstones.

☐ True

☐ False

Page  
Number

### Statement 3

Some rocks are porous.

☐ True

☐ False

Page  
Number

### Statement 4

Jet is a black gemstone made from decaying wood.

☐ True

☐ False

Page  
Number

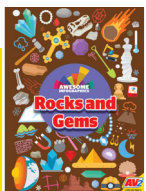
### Statement 5

Rocks cannot be transformed because of heat and pressure.

☐ True

☐ False

Page  
Number



## Crystal Habits

Follow the instructions to complete the activity.

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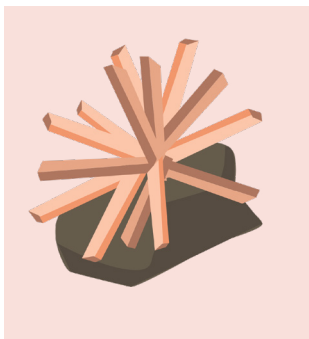
Using information found in the book, label each type of a crystal habit.

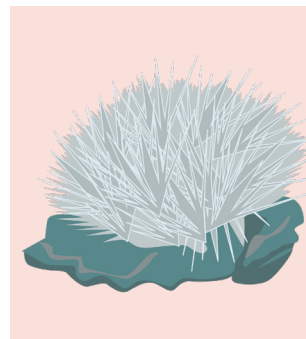


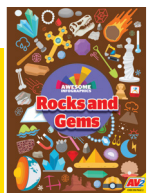












## Fill in the Blanks

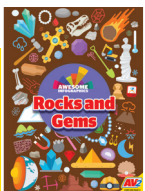
Follow the instructions to complete the activity.

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Use the information found in *Rocks and Gems* to help you complete the following activity.

1. There are three main types of rocks: sedimentary, , and metamorphic.
2. Rainwater is slightly , which means it can slowly wear away limestone.
3. As well as rivers, the ocean can also cause the land to .
4. Carbon comes in many different  depending on the structure of its atoms.
5. Pearls are made by .



Using information from the book, select an answer from the right and write the letter in the box beside the statement.

1.

The largest stalagmite in the world is this many feet tall.

**A. 5.6**

2.

Granite is this percent made of quartz.

**B. 8,400**

3.

Crystals in the Giant Crystal Cave can reach up to this many feet in length.

**C. 75**

4.

The biggest pearl ever found weighs this many pounds.

**D. 36**

5.

One of the largest dinosaur footprint fossils ever found is this many feet long.

**E. 25**

6.

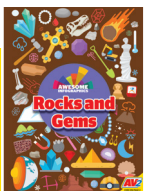
This many sarsen stones were used to build Stonehenge.

**F. 230**

7.

There are this many soldiers in the Terracotta Army.

**G. 85**



## Test Your Knowledge

Follow the instructions to complete the activity.

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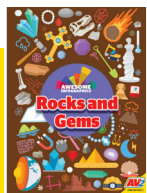
Test your knowledge of rocks and gems by answering these questions.

**What are rocks?**

**What are gemstones?**

**What is coastal erosion and what features can it form?**

**What are four layers that make up Earth?**



## Rocks and Gems Quiz

Test your knowledge by answering these quiz questions.

NAME

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**1**

How many layers make up Earth?

**2**

What type of igneous rock makes up the Giant's Causeway?

**3**

Where is the longest cave system in the world found?

**4**

How deep is the Grand Canyon?

**5**

What determines whether a rock is hard or soft, porous or nonporous?

**6**

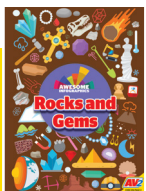
What gemstone is made from the element carbon?

**7**

Which two types of stone were used to make Stonehenge?

**8**

How does limestone become marble?



## Key Words Match-Up

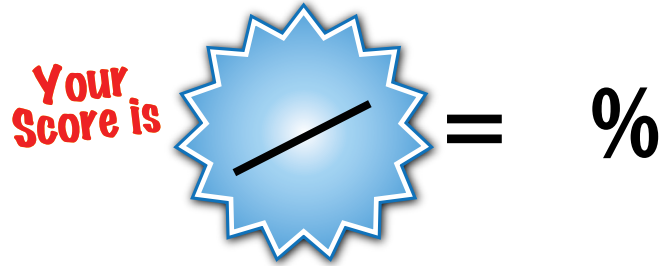
Write the words from the list below in the box above the correct definition for each word. Check your answers on page 31 of the book.

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### KEY WORDS

|            |            |
|------------|------------|
| acidic     | element    |
| atoms      | fossilized |
| classify   | liquefied  |
| compaction | preserved  |
| decomposes | resin      |



- the smallest part of a chemical element, which is made up of even smaller particles
- contains a chemical substance that causes damage to the natural environment
- the process by which pressure put on sediment causes it to stick together and form rock
- to arrange things into groups based on shared characteristics
- maintained in its original or current state
- decays or rots
- to be made liquid
- an animal or plant that has been preserved for so long that it has become a fossil
- a pure substance made from only one type of atom
- a gummy substance made by trees

