

A THOUSAND MILES OF DESERT & MOUNTAINS

Vocabulary

- 1) Vines a climbing or trailing woody-stemmed plant of the grape family
- 2) Record set down in writing or some other permanent form for later reference, especially officially
- 3) Journal a newspaper or magazine that deals with a particular subject or professional activity
- 4) Swollen (past participle of swell) a part of the body becoming larger or rounder in size
- 5) Aparejos a kind of packsaddle made of leather stuffed with hay, moss or the like
- 6) Cinnabar a bright red mineral consisting of mercury sulfide and is sometimes used as a pigment
- 7) Solstice either of the two times in a year when the sun reaches its highest or lowest point in the sky at noon, marked by the longest and shortest days
- 8) Compass an instrument containing a magnetized pointer which shows the direction of magnetic north and bearings from it
- 9) Death Valley an arid basin in eastern California and southern Nevada, lowest land in North America

Writing

- 1) In preparation to leave Amargosa, Josephine packed all day while George fed the animals. Write a short paragraph describing what you have done or would to prepare for a big road trip. Paragraph should mention steps to prepare for a road trip.
- 2) In the passage, George mentions he consulted his journal to jog his memory about a man that he had met named Pierson. Think about something you did this summer that you want to forget and write a short paragraph to refer to in the future. Paragraph should mention something the author did that she/he would like to remember.
- 3) George describes that Dauberman told him about the shadow method for determining east/west. Thinking back to all the science concepts and experiments you've learned in school, which is your favorite and why? Paragraph should mention the student's favorite science concept or experiment and why it's a favorite.

- 4) Knowing what you do now about cinnabar, why do you think Morris told the Beyors that they should have the red rock checked that they would likely find in the Steward Valley?
 Paragraph should mention why cinnabar can potentially be dangerous.

Math

Cinnabar

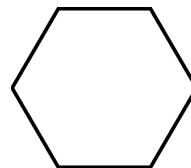
Cinnabar is a bright red mineral that George and Josephine were warned about in episode 6. Cinnabar can be found in Nevada, typically close to the surface and near volcanic rock and sometimes near natural hot springs. When crushed and heated, cinnabar becomes liquid mercury, also called quicksilver, which can be deadly. Historically, this valuable red mineral was used to make pottery, paintings, jewelry, and other forms of art.



The Cinnabar crystal is in the hexagonal crystal family.



The face of the cinnabar is a hexagon which is a 6-



sided polygon.

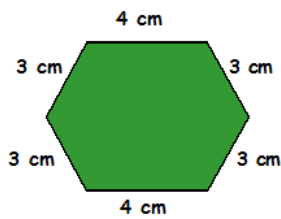
A *polygon* is a closed shape with straight sides. Here are other polygons with different number of sides.



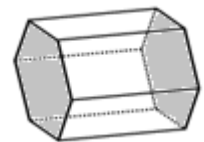
Perimeter

To find the perimeter of any polygon, add up the length of each side.

Find the perimeter of the hexagon below. **Sum of all sides is 20 cm**



A cinnabar crystal can look similar to the 3-D of a Hexagonal Prism which has 8 faces: two faces are hexagons, what shape are the other six faces? **Rectangles** Shade the the two hexagons (faces) of the prism.

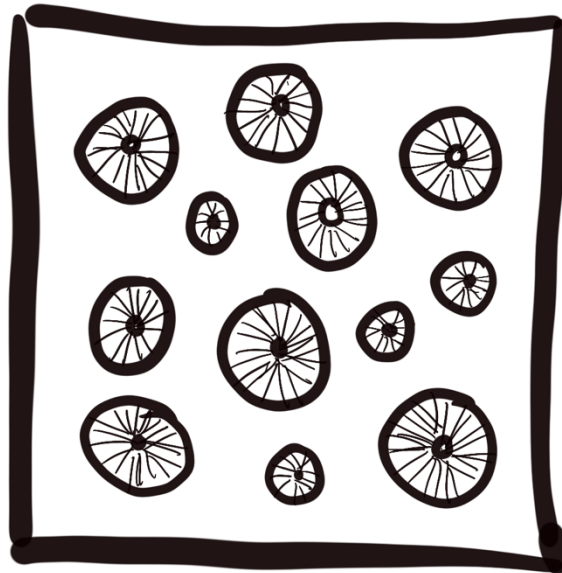


Art

Look around your home, neighborhood and classroom and identify 5 things that are polygons. In your journal, draw these five items and describe the number of sides on each item. **Drawings should include everyday items that represent polygon shapes.**

Zentangle

This week's zentangle pattern looks like this:



1000 Miles of Desert & Mountains
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