

Name:

Date:

Topic: Topographic Maps

Period:

Warm Up:

1) Maps are a _____ representation of the _____-dimensional world that use special colors and symbols to represent the earth's surface.

- Reading a map really well is like learning another _____.

2) The topographical map uses markings called _____ lines to simulate 3-D topography of the land.

- Topography - the _____ of surface shapes and features

3) All maps indicate their _____ in the legend/key. The map scale is always shown as two numbers.

- Ex - 1 : 24,000 = 1 unit on map equals 24,000 of those same units in the real world.

- There are _____-scale maps and _____-scale maps.

- Large scale maps shows small detail and small scale maps show large detail

- 1 : 24,000 = small scale ; 1 : 250,000 = large scale

4) Contour lines show the 3-D _____ of terrain on a 2-D surface.

- The map _____ indicates the contour _____ (the distance in elevation between each contour lines).

- Every _____ or _____ line, there will be a heavier contour line labeled with the elevation.

5) Topography features

- Steep slopes - _____ lines are close together

- Gentle slopes - contours are _____ spaced

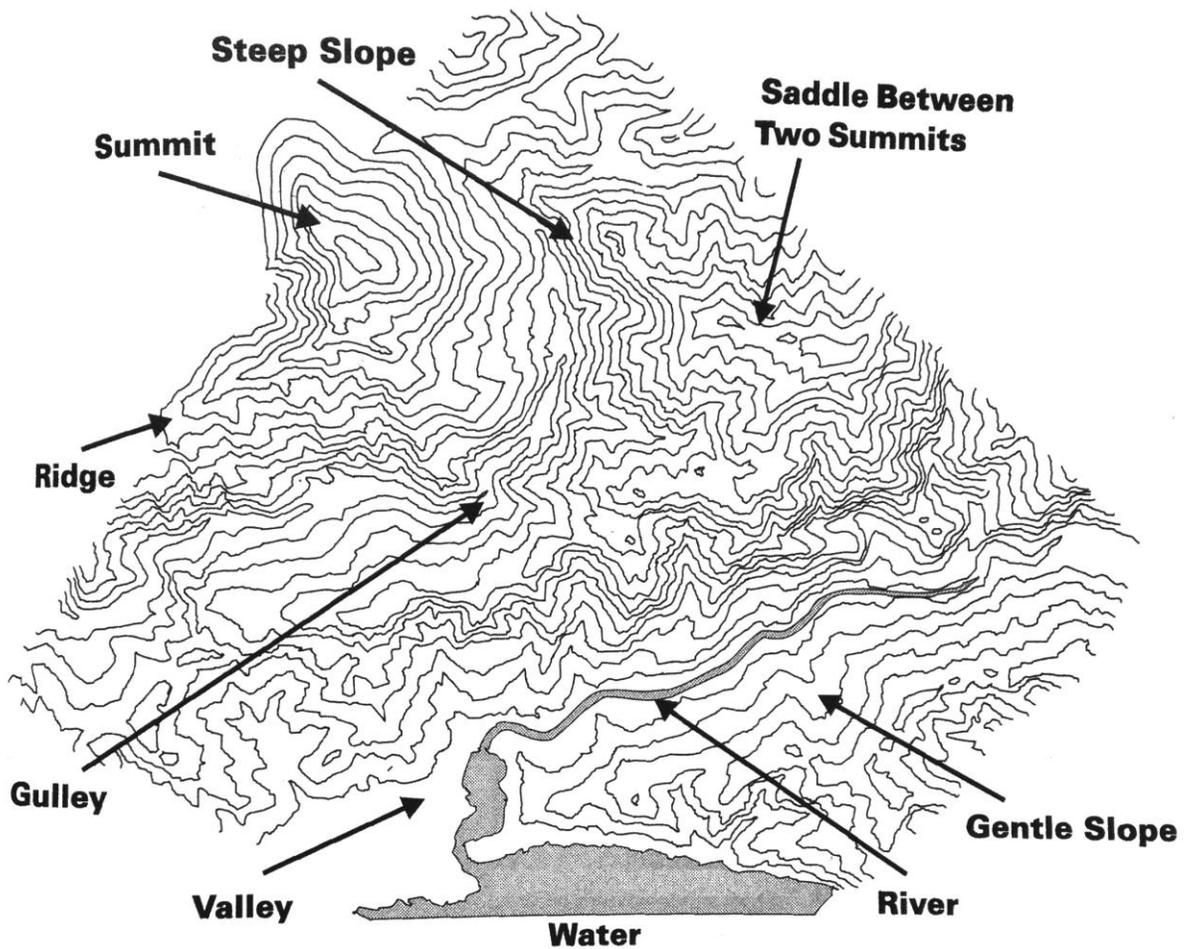
- Valleys: A space with _____ widely spaced contour lines, with a V or a U shape pointing uphill

- Ridges: An area with sharp _____ sides usually found close to a peak. Contour lines form a V pointing toward _____ elevation.

- Peak/Summit: A high point (_____ top). Contour lines form an _____ circle

- _____: A low area between _____ peaks.

- Drainage: A area with sharp, _____ sides usually found close to a peak.

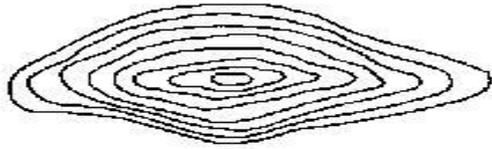


Big Sur, California, Map View Showing Contour Lines and Features

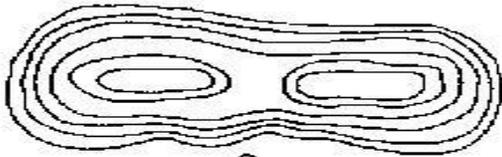
Practice: Draw an arrow connecting the topo drawing on the left to the geographic feature on the right.



1



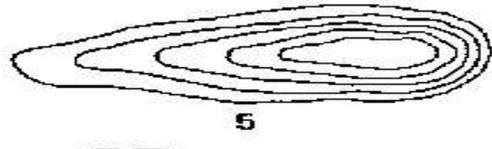
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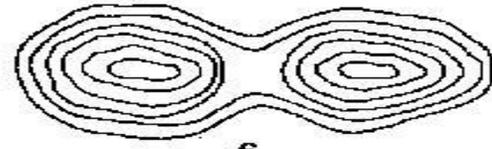
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4



5



6



A



B



C



D



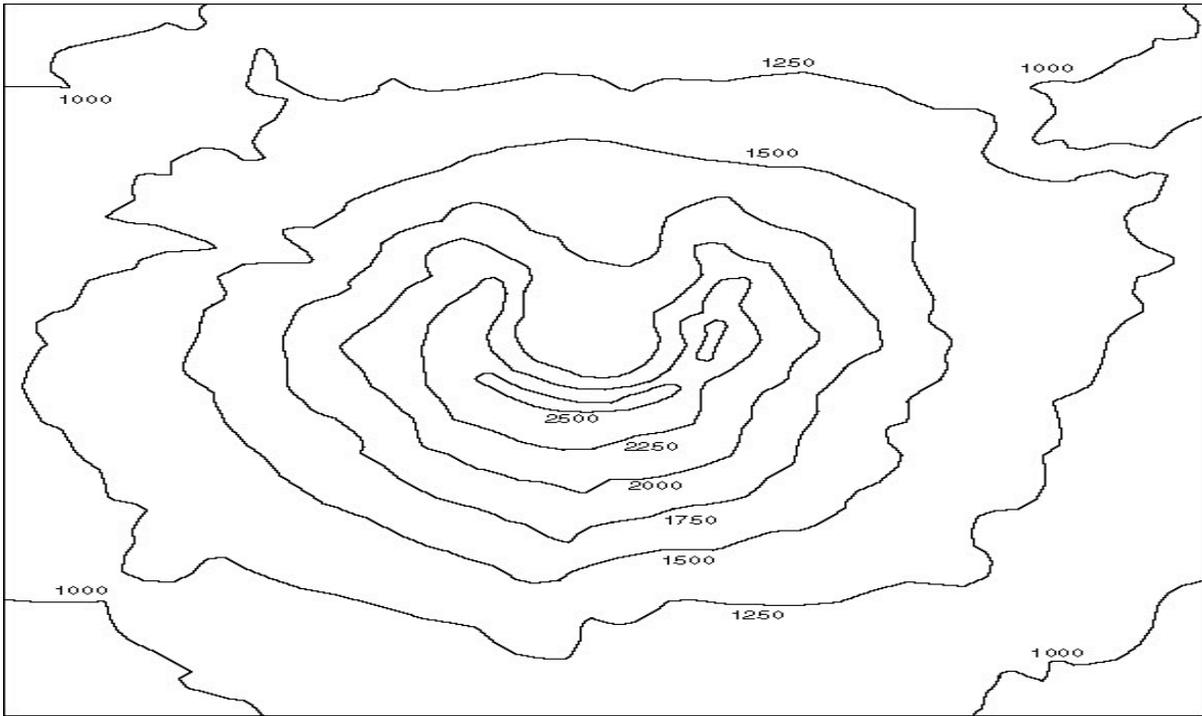
E



F

Answer: Which ones were tricky for you to figure out? Are there any you are not sure of? Why?

Practice: Next, identify what the contour intervals are below:

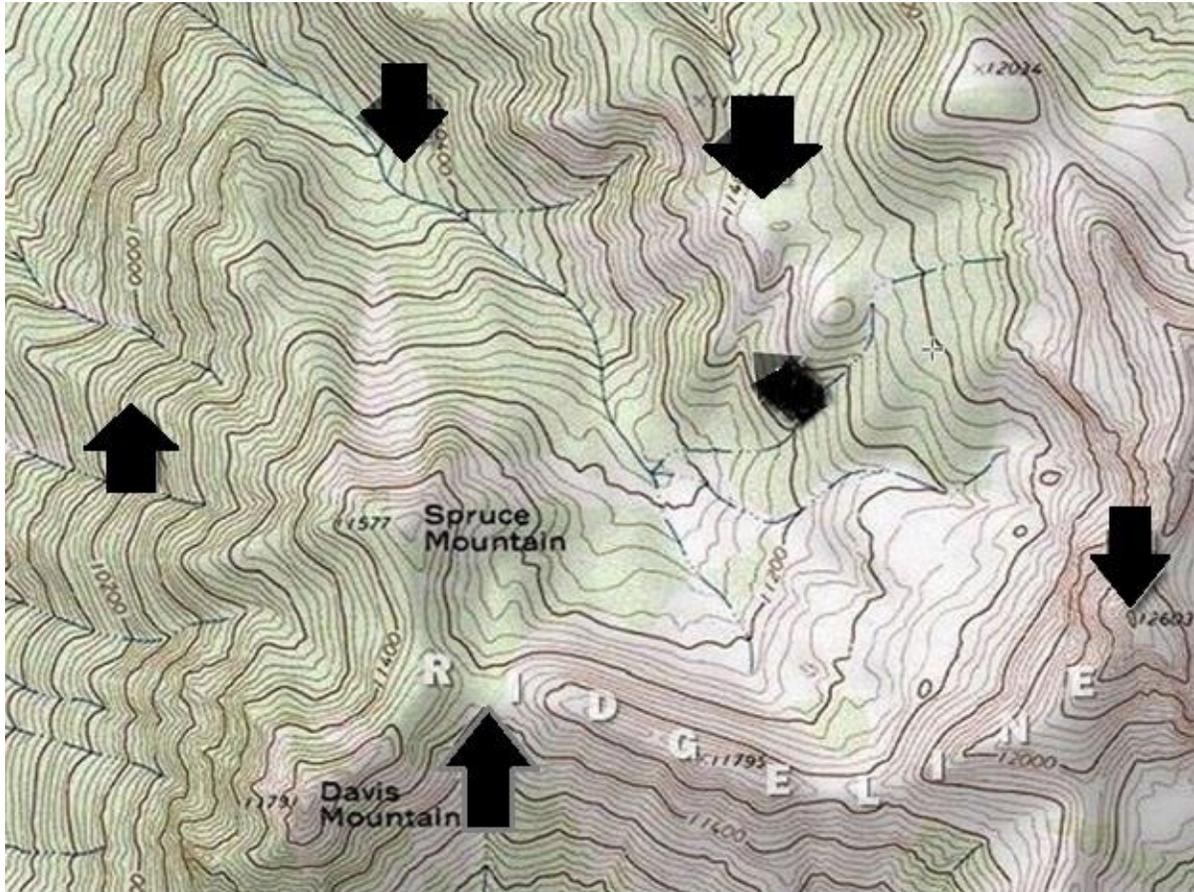


Contour interval: _____



Contour interval: _____

Practice: Label the 3-D terrain features indicated by the arrows on the map in your notes



- 1) _____
- 2) _____
- 3) _____
- 4) _____
- 5) _____