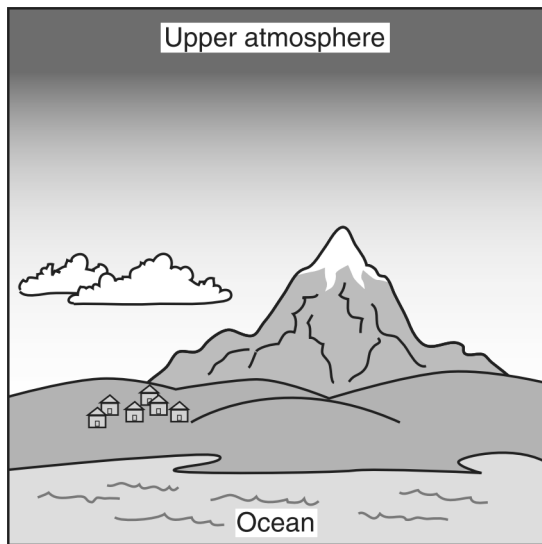


RQ Air Pressure and Wind

Name: _____

Date: _____

1. During the night at the beach, in which direction would you expect a breeze?
 - A. From the sea towards the land
 - B. From the land towards the sea
 - C. Straight down over the land
 - D. Straight down over the sea
2. The diagram below shows a landscape.



Where in the diagram would the air pressure be the lowest?

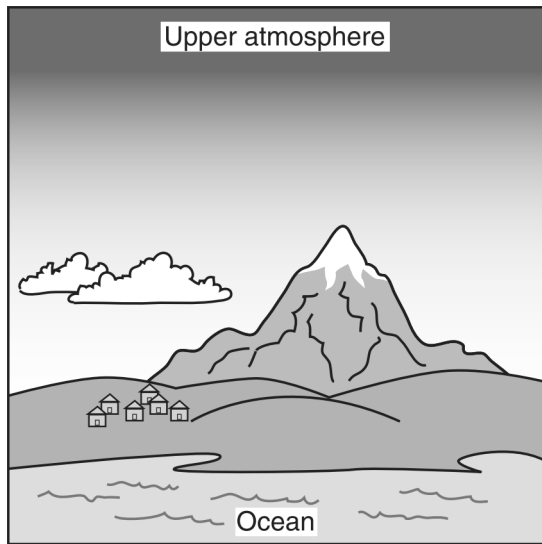
- A. at the beach
- B. on top of the mountain
- C. over the town
- D. at the bottom of the mountain

3. Two air masses with large differences in air pressure are near one another. What weather condition will *most likely* exist between the two air masses?
 - A. low humidity
 - B. high winds
 - C. freezing temperatures
 - D. clear skies
4. Where would you expect wind speeds to be the greatest?
 - A. In an open field
 - B. In a forest
 - C. In a small town
 - D. In a big city
5. Wind can cause erosion that changes the surface of the Earth. Wind erosion can have negative effects on the environment by removing soil and polluting the air during dust storms.

Walter wanted to find a way to reduce wind erosion on his farm. Which of the following methods could Walter do to try to reduce wind erosion?

 - A. Plant more flowers
 - B. Plant lines of trees
 - C. Alternate his crops
 - D. Mow his grass
6. Which has the *greatest* effect on wind speed?
 - A. precipitation
 - B. cloud cover
 - C. wind direction
 - D. air pressure
7. What creates a low pressure system?
 - A. Warm air rising
 - B. Warm air sinking
 - C. Cool air rising
 - D. Cool air sinking

8. The diagram below shows a landscape.



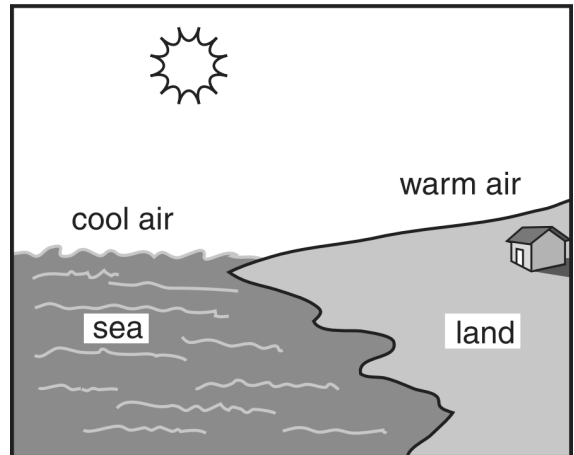
Where in the diagram would the air pressure be the greatest?

- A. at the beach
- B. on top of the mountain
- C. at the bottom of the clouds
- D. above Earth's atmosphere

9. What creates a high pressure system?

- A. Warm air sinking B. Warm air rising
- C. Cool air sinking D. Cool air rising

10. The picture below shows a place where air currents will form due to the uneven heating of Earth.



In which direction will air currents *most* likely move to create a sea breeze?

- A. straight down over the land
- B. from the land toward the sea
- C. straight up above the sea
- D. from the sea toward the land