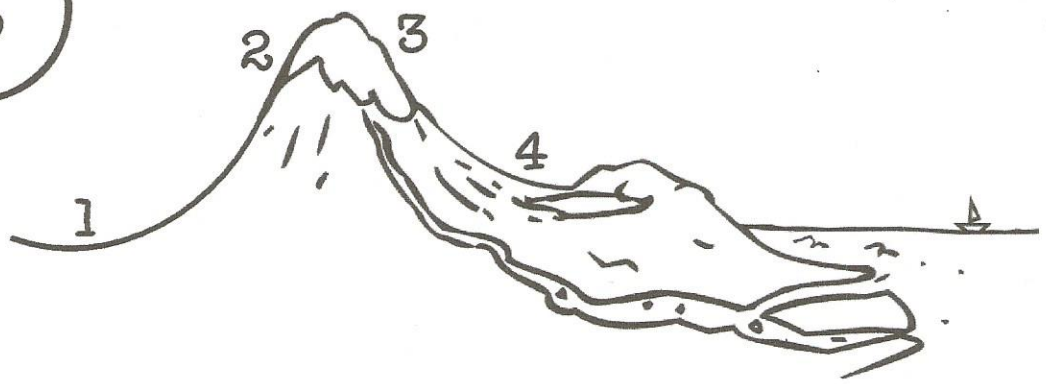
1

Which tool **best** helps scientists to compare the amounts of precipitation at different altitudes of Rocky Mountains?

A stop watch
B Richter scale
C rain gauge
D star chart

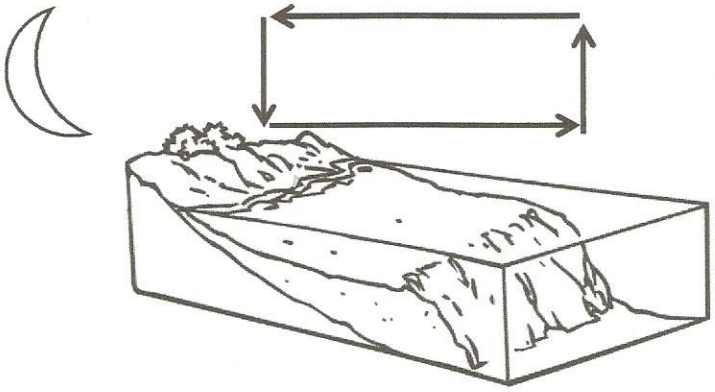
2



Which location in the diagram would an organism with adaptations for a hot, dry habitat **most likely** prefer?

A 1
B 2
C 3
D 4

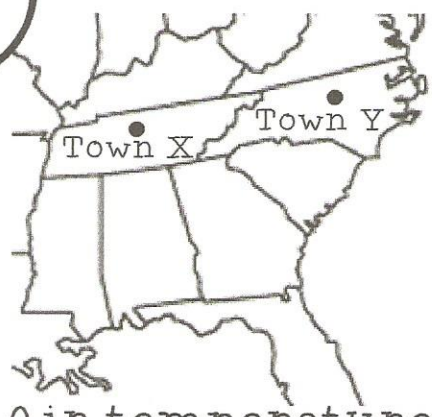
3



Air movement is shown near an ocean at night. Which statement **best** describes the air movement shown?

A Warm air sinks over the ocean.
B Cool air sinks over the land.
C Waves move cold air toward the land.
D Cool air rises over the ocean.

4



Town Y is closer to the ocean than Town X. How does this difference **most likely** impact the climate of Town Y when compared to Town X?

A Air temperatures tend to be cooler in the winter and warmer in the summer in Town Y.
B Town Y receives more sunlight than Town X.
C Air temperatures tend to be warmer in the winter and cooler in the summer in Town Y.
D Town Y is at a higher altitude than Town X.

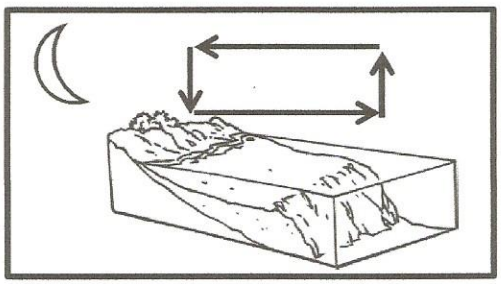
5

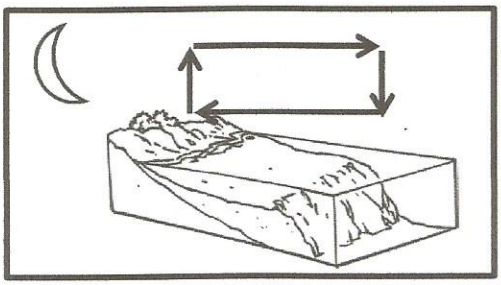
A group of scientists begins at the base of Mount Everest and climbs toward the summit. Compared to the base, the summit will **most likely**

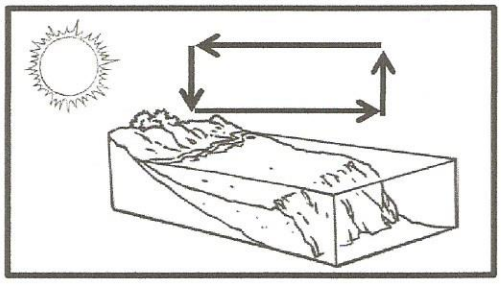
A have a lower altitude
B have higher air temperatures
C have less snowfall
D have lower air temperatures

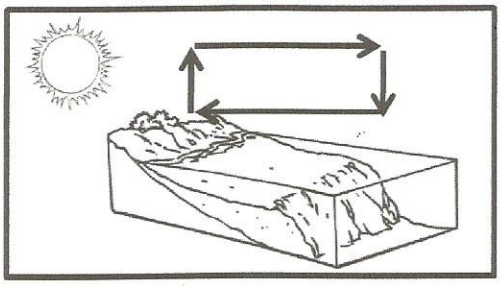
6

Which diagram correctly shows the conditions involved in a sea breeze?

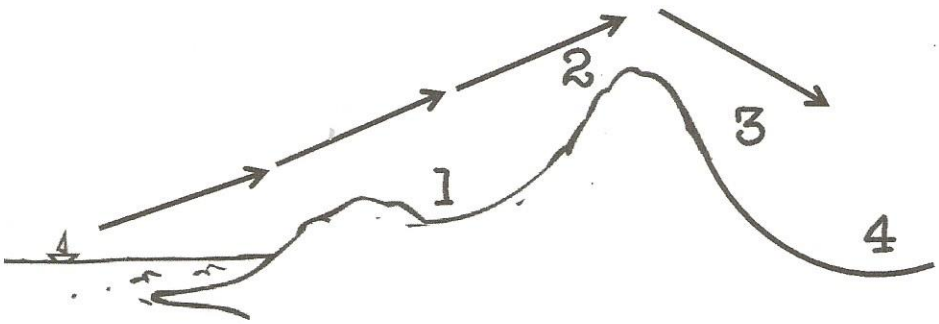
A 

C 

B 

D 

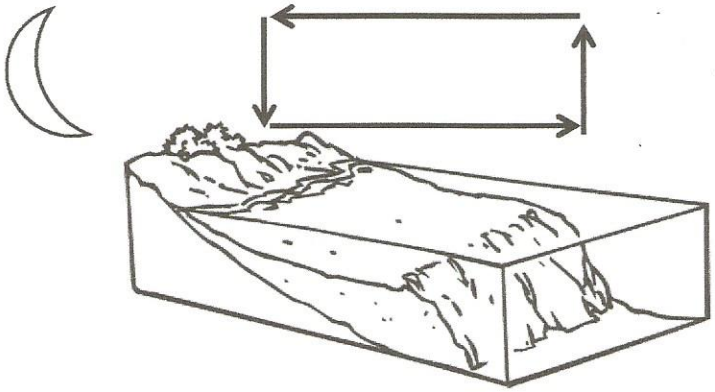
7



Which location in the diagram will receive the **greatest** amount of snowfall?

A 1
B 2
C 3
D 4

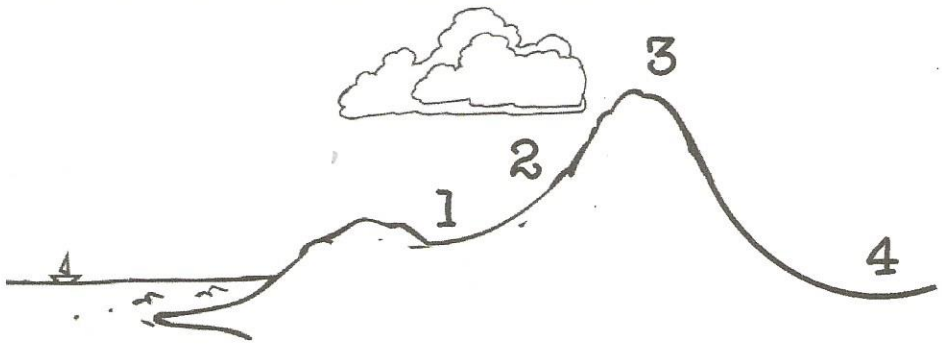
8



Air flow is shown near an ocean at night. Which statement **best** explains why the air flows in the direction shown?

A Air over the land is warmer than the air over the land.
B Clouds block cool air from reaching land.
C The ocean warms more quickly than land.
D The land is cooler than the ocean water.

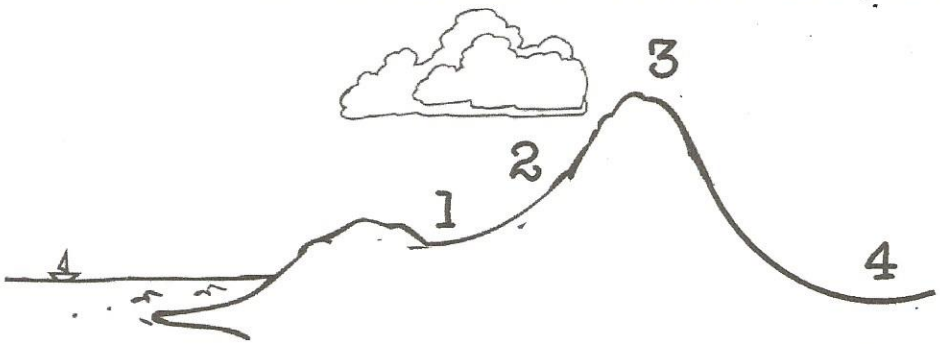
9



A mountain located near an ocean is shown. Which location on the diagram will likely receive the **least** amount of precipitation?

A 1
B 2
C 3
D 4

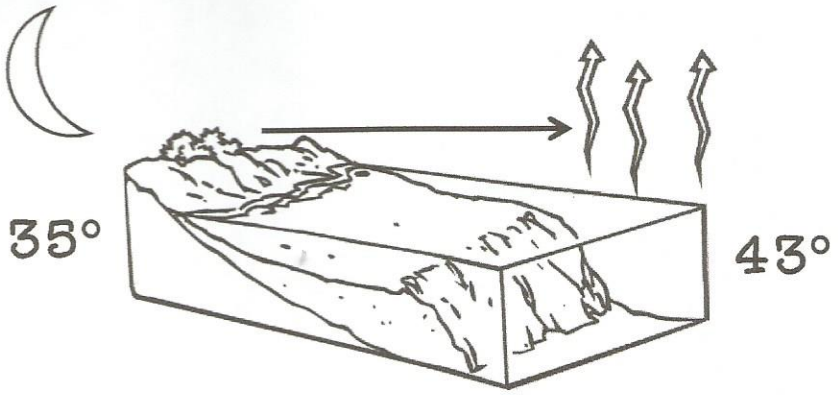
10



A mountain located near an ocean is shown. Which location on the diagram will likely receive the **greatest** amount of precipitation?

A 1
B 2
C 3
D 4

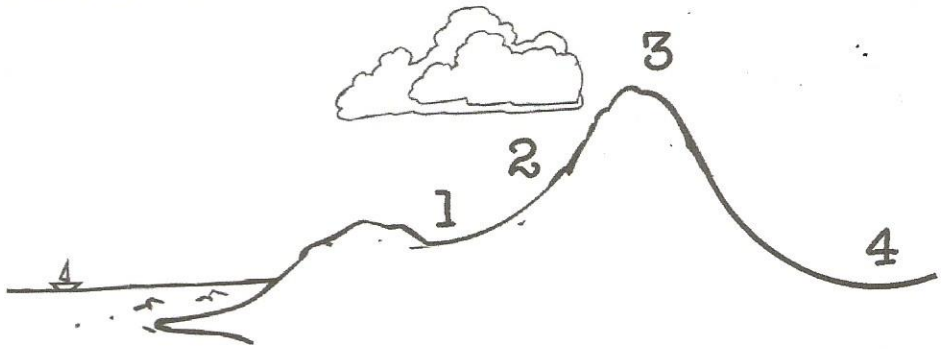
11



Land and ocean temperatures are shown in the diagram above. The diagram illustrates the

A tornado forming over the ocean.
B movement of tectonic plates.
C cause of land breezes.
D impact of human action on the ocean floor.

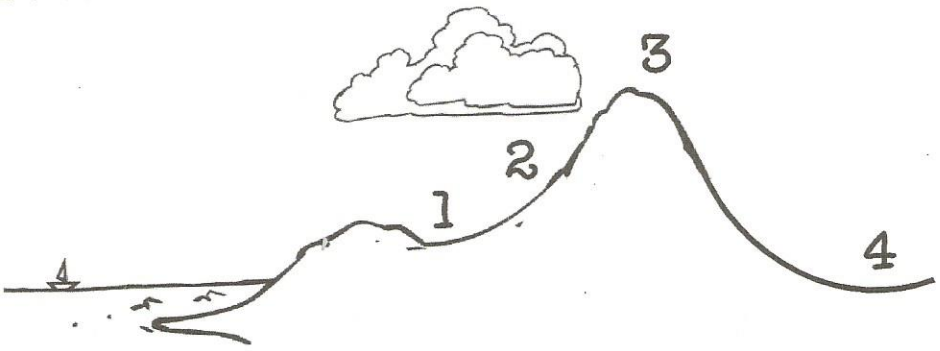
12



A mountain located near an ocean is shown. Which location on the diagram will likely have the **highest** temperature during the summer?

A 1
B 2
C 3
D 4

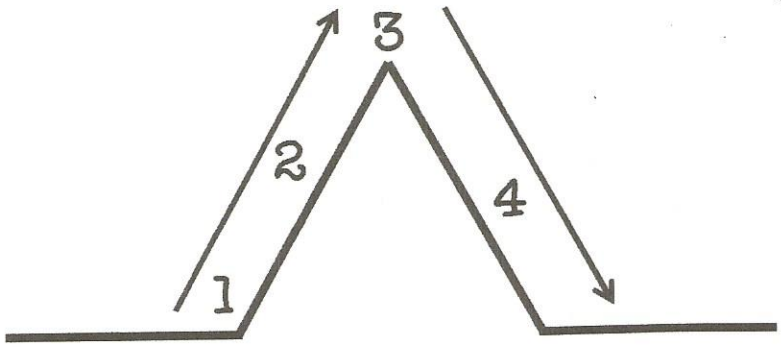
13



A mountain located near an ocean is shown. Which statement best explains what caused the clouds to form?

A Waves crash against the base of the mountain.
B Runoff flows down the side of the mountain.
C Air is warmed as the sun sets.
D Damp ocean air cools as it rises.

14



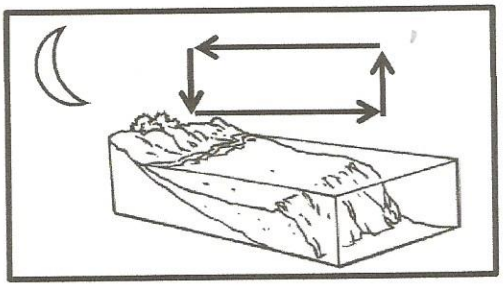
Two friends hiked up a mountain and down the other side, as shown. At which point in the hike did the hikers feel coldest?

A 1
B 2
C 3
D 4

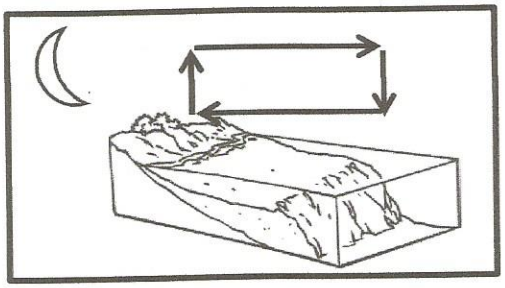
15

Which diagram correctly shows the conditions involved in a land breeze?

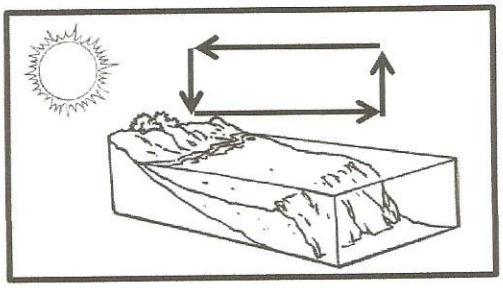
A



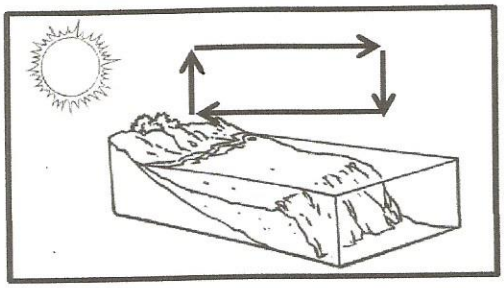
C



B



D

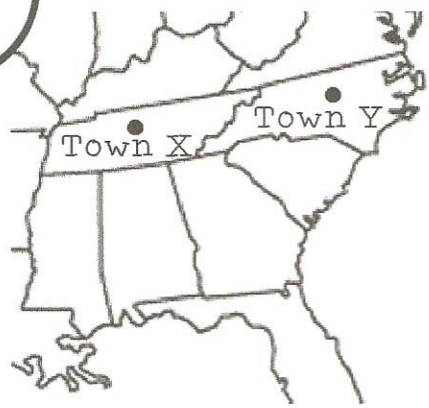


16

Which statement **best** describes why inland cities are often colder in the winter than cities near the ocean at the same latitude?

A Ocean tides are lowest in the winter.
B Land cools more quickly than oceans.
C Ocean tides are highest in winter.
D The moon cools air over land.

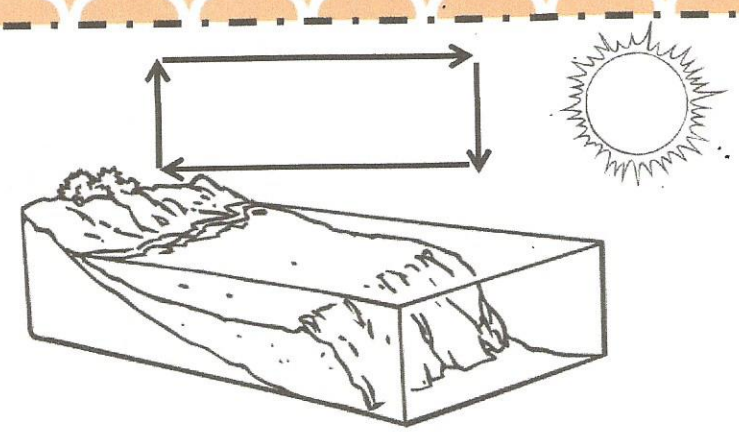
17



Town Y has milder winters than Town X. Which statement **most likely** explains this difference in climate?

A Town Y is closer to the ocean than Town X.
B Town Y is closer to the equator than Town X.
C Town Y is farther from the ocean than Town X.
D Town Y is at a higher altitude than Town X.

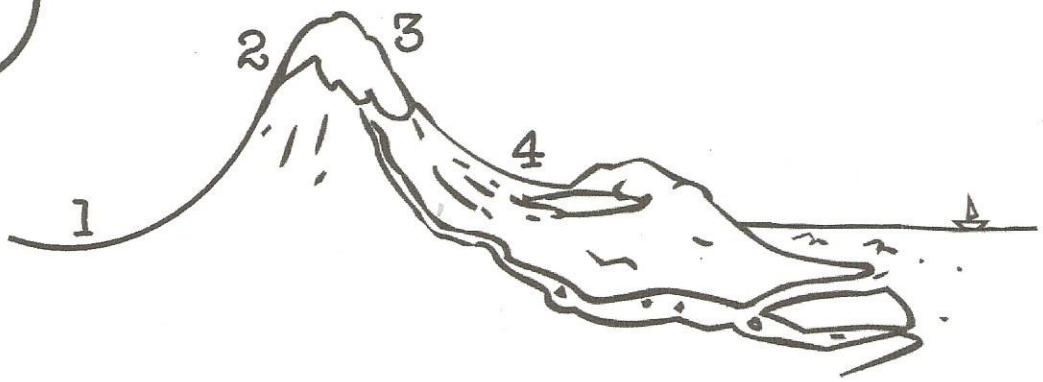
18



Daytime air movement is shown near an ocean. Which statement **best** describes the air movement shown?

A Warm air rises over the land.
B Cool air sinks over the land
C Waves move warm air away from the land.
D Cool air rises over the ocean.

19



Which location in the diagram would an organism with adaptations for a damp, cool climate **least likely** prefer?

A 1
B 2
C 3
D 4

20

Which tool **best** helps scientists to compare the temperatures at different altitudes of Rocky Mountains?

A stop watch
B thermometer
C rain gauge
D telescope