



# knowledge quiz

## Oceans

Name \_\_\_\_\_

1. Which of the following is NOT a major factor in heating our oceans?
  - A. the sun
  - B. condensation of water vapor from the air
  - C. friction between ocean currents and landmasses
  - D. contact with the earth's crust beneath the oceans
2. How much of the earth's surface do the oceans cover?
  - A. 1/2
  - B. 2/3
  - C. 3/5
  - D. 3/4
3. What does an ocean contain?
  - A. salty water (lots of it)
  - B. diverse life forms
  - C. dissolved gases, minerals, and nutrients
  - D. all of the above
4. Why is water colder in the ocean depths than it is near the surface?
  - A. Water near the surface is heated by sunlight.
  - B. The numerous fish near the surface heat the water with their bodies.
  - C. The ocean floor is made of ice and cools the water next to it.
  - D. All of the above are true.
5. Humans cannot explore much of the ocean without technological assistance. Which of the following is a technology that assists in ocean exploration?
  - A. radar
  - B. X-rays
  - C. sonar
  - D. MRI (Magnetic Resonance Imaging)



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6. Even though ocean water is salty, it provides most of the freshwater for plants and animals all over the world. How does this happen?
  - A. The salt evaporates from the water when it flows onto land.
  - B. Salt is filtered naturally out of the water when it leaves the ocean.
  - C. Water from the ocean evaporates and falls as rain, snow, or hail.
  - D. All of the above are true.
  
7. Sunlight cannot reach the deepest parts of the ocean. As a result, creatures of the deep glow with chemically produced light called
  - A. bioluminescence.
  - B. black light.
  - C. neon.
  - D. infrared.
  
8. How does the gravitational pull of the sun and moon affect the ocean?
  - A. Gravitational pull causes the rise and fall of the tide.
  - B. Gravitational pull affects the speed of ocean waves.
  - C. Ocean temperatures are controlled by gravitational pull.
  - D. Ocean depth is controlled by gravitational pull.
  
9. Which of the following does NOT play a role in the creation of ocean currents?
  - A. wind
  - B. gravity
  - C. rotation of the Earth
  - D. water temperature
  
10. How many times in one day will the tide rise and fall?
  - A. one
  - B. two
  - C. four
  - D. five