

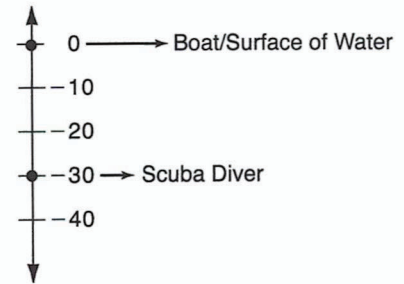
Integers in the Real World

Name _____

A scuba diver is swimming 30 meters below the surface of the water. A boat is waiting for him at the surface. Use a number line to represent this situation. What does 0 mean on the number line?

- The diver is 30 meters below the surface of the water. The integer is -30 .
- The boat is neither above nor below the surface of the water. The integer is 0.

So, 0 represents the surface of the water in this situation.



Plot the point that represents the situation. Then explain what 0 represents in the situation

1. Angela opens a savings account with an initial deposit of \$100.



2. Arthur digs a hole 2 feet deep.



3. A submarine travels 500 feet below the surface of the ocean.



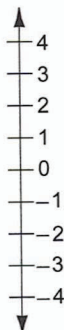
4. A bird flies 50 feet above the ground.



Problem Solving

Represent the situation on the number line. Then explain why the second statement is false.

5. Marge builds a 4-foot tower of blocks on a table. The top of the tower is 4 feet below the top of the table.



6. Johan moves down 15 meters from the top of a ladder. He is now 15 meters above the ground.

