



Which statements are True and which statements are False?

WELL DONE!

- ✓ TRUE / **FALSE**    A) A force can push but not pull.
- ✓ **TRUE** / FALSE    B) Friction is a contact force.
- ✓ TRUE / **FALSE**    C) Gravity can either push or pull.
- ✓ **TRUE** / FALSE    D) Air resistance is a force that acts against motion.
- ✓ **TRUE** / FALSE    E) More than one force can act on something at the same time.



When more than one force acts on something, we can add the forces together to get one force. The result is called the **net force**. When we combine the forces, we have to think about the direction in which each force pushes or pulls. If two forces push or pull in **opposite** directions, the net force will be the smaller force subtracted from the larger force.



In the video above, eight children are having a tug-of-war. Four girls are pulling one way and four boys are pulling the other way. Each child pulls with a force of 50 pounds.

Remember we said we can show a force as an arrow. The arrow points in the direction the force is acting and the length

# The Force on a Fish Swimming Upstream

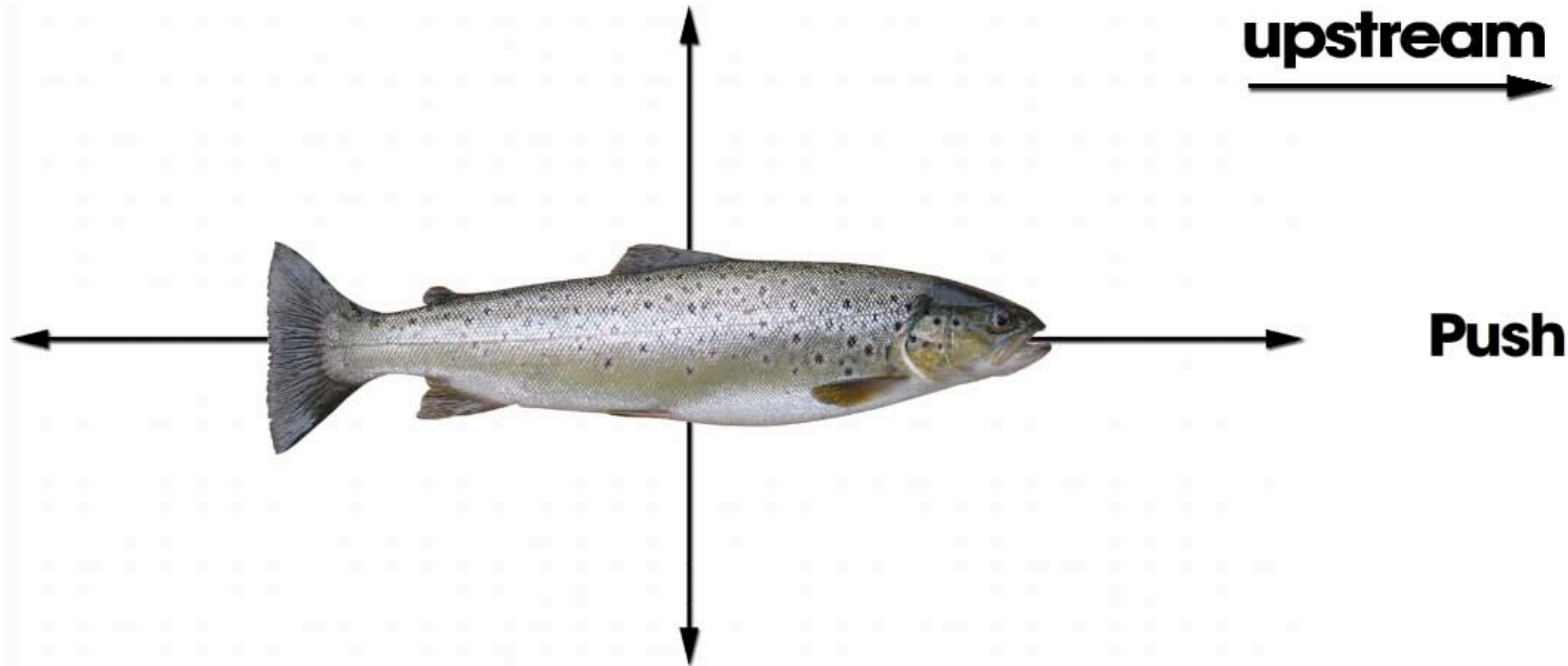
**Buoyant  
Force**

**Gravity**



**(label)**

**upstream**  
→



**Water  
Resistance**

**Push**

**(label)**



**Reset**