

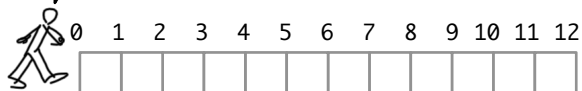
Week 21 2D Motion

DAY 1, Part 1: Actual Displacement

Name: _____

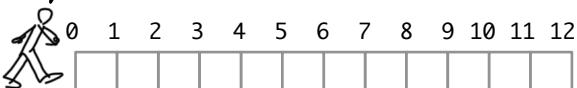
In each situation, mark where the object will be after 1, 2 and 3 seconds with a dot.

person's speed = 2 m/s



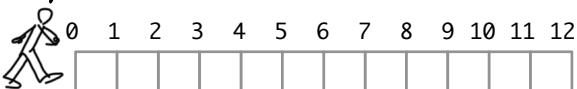
walkway speed = 0 m/s

person's speed = 2 m/s



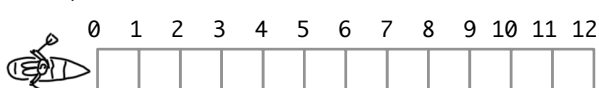
 *walkway speed = 1 m/s*

person's speed = 2 m/s



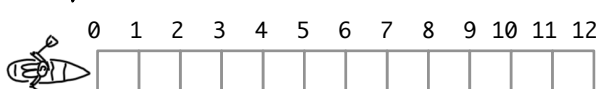
 *walkway speed = 1 m/s*

rowing speed = 3 m/s



 *current speed = 3 m/s*

rowing speed = 3 m/s



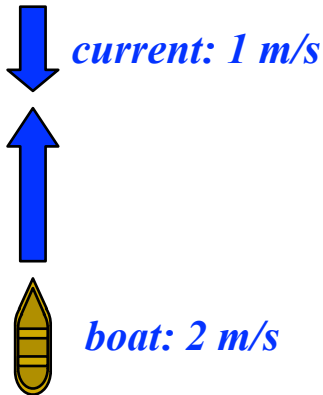
 *current speed = 3 m/s*

Now go back and estimate how many seconds it would take to cover 12 meters (the length of the entire ruler.)

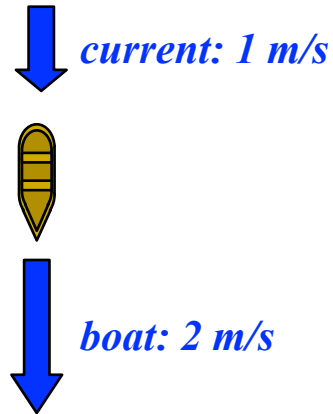
Part 2: Actual Velocity

In each situation, find the actual velocity of the moving object.

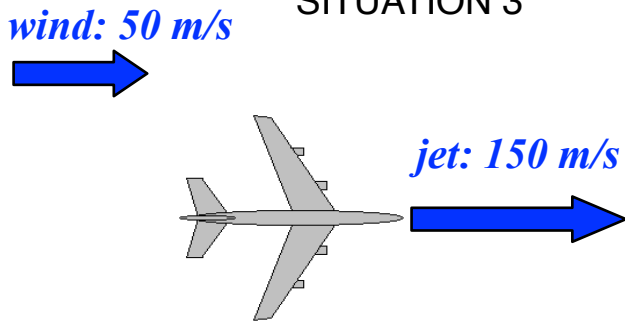
SITUATION 1



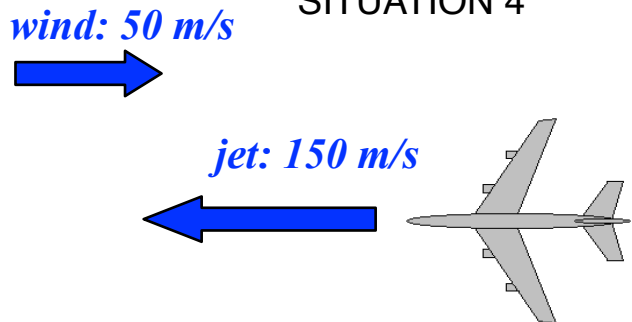
SITUATION 2



SITUATION 3



SITUATION 4



Part 3: Actual Times

SITUATION 1: How long would it take the boat to go 12 meters?

SITUATION 2: How long would it take the boat to go 12 meters?

SITUATION 3: How long would it take the jet to fly 200 meters?

SITUATION 3: How long would it take the jet to fly 200 meters?