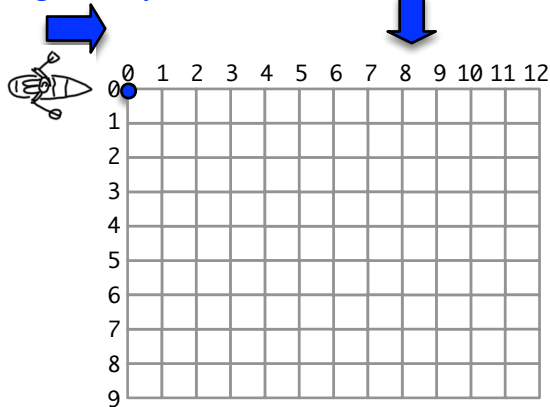


Cycle 17 - 2D Motion

Refresher

Name: _____

rowing velocity = 3 m/s current velocity = 3 m/s



First solve for the time it takes
the boat to cross 12 m

$$(Dx) = (Vx)(t)$$

Then solve for how far down the
current carries the boat

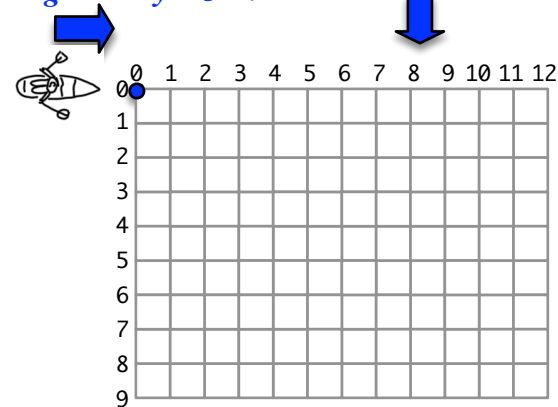
$$(Dy) = (Vy)(t)$$

Cycle 17 - 2D Motion

Refresher

Name: _____

rowing velocity = 3 m/s current velocity = 3 m/s



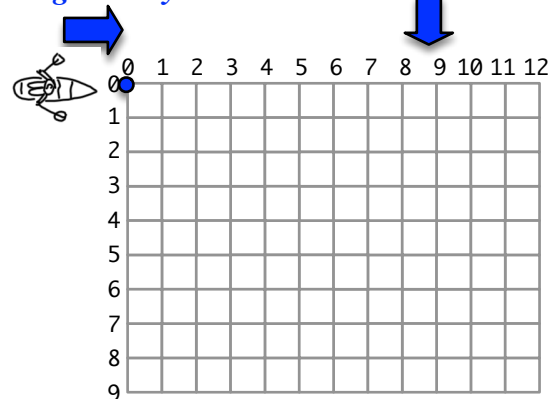
First solve for the time it takes
the boat to cross 12 m

$$(Dx) = (Vx)(t)$$

Then solve for how far down the
current carries the boat

$$(Dy) = (Vy)(t)$$

rowing velocity = 4 m/s current velocity = 1 m/s



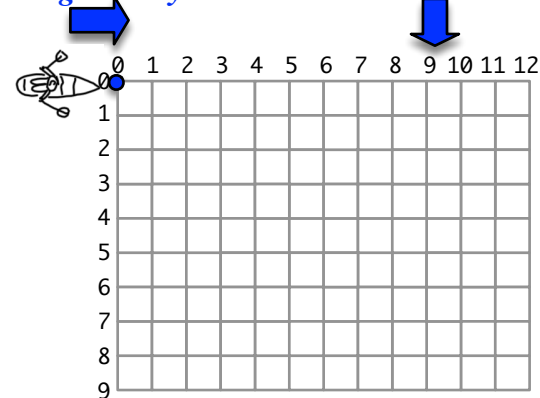
First solve for the time it takes
the boat to cross 12 m

$$(Dx) = (Vx)(t)$$

Then solve for how far down the
current carries the boat

$$(Dy) = (Vy)(t)$$

rowing velocity = 4 m/s current velocity = 1 m/s



First solve for the time it takes
the boat to cross 12 m

$$(Dx) = (Vx)(t)$$

Then solve for how far down the
current carries the boat

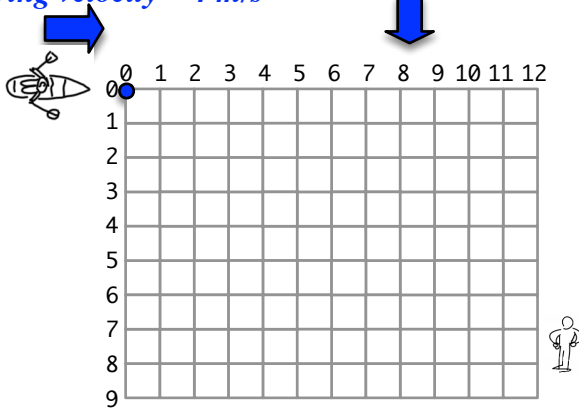
$$(Dy) = (Vy)(t)$$

Cycle 17 - 2D Motion

Check-in #3

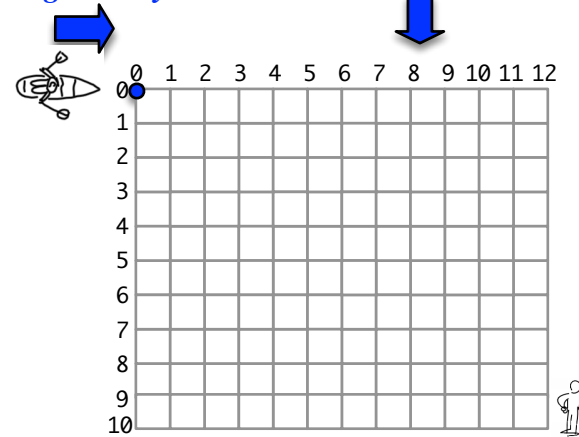
Name: _____

rowing velocity = 4 m/s current velocity = ? m/s



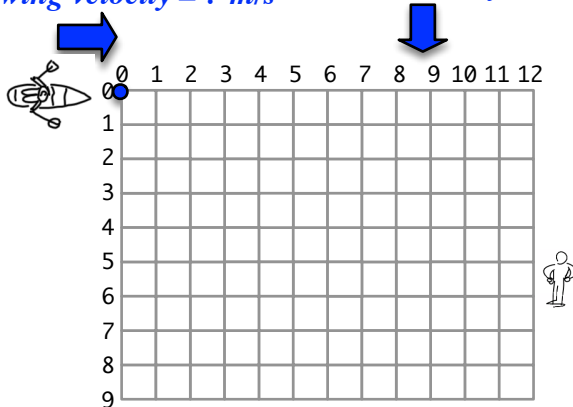
How fast should the current velocity be for the boat to reach the person that is displaced 8 meters downstream?

rowing velocity = 2 m/s current velocity = ? m/s



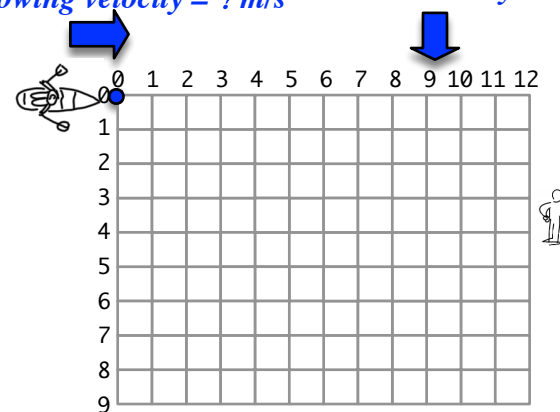
How fast should the current velocity be for the boat to reach the person that is displaced 10 meters downstream?

rowing velocity = ? m/s current velocity = 1 m/s



How fast should the rowing velocity be for the boat reach the person that is displaced 6 meters downstream?

rowing velocity = ? m/s current velocity = 1 m/s



How fast should the rowing velocity be for the boat reach the person that is displaced 4 meters downstream?