**Race Day Questions**

**Q1** If the thrust force (or paddling force) is bigger than the drag force, the waka ama will go forwards. If the drag force from the wind blowing onto to the front of the waka ama was bigger than the thrust force, then the waka would go backwards. What do you think would happen to the waka ama if the drag force and thrust force were the same?

a) The waka would go backwards

b) The waka would go sideways

c) The waka would stay in the same position

d) The waka would go forwards

**Q2** Sometimes in physics it easier to explain things in equations rather than sentences. What do you think the equation would be for the resultant force?

a) Resultant force = weight force – thrust force

b) Resultant force = thrust force x drag force

c) Resultant force = thrust force - drag force

d) Resultant force = thrust force + drag force

**Q3** What do you think would be the equation for the support force for the waka ama?

a) Support force = weight force – thrust force

b) Support force = drag force

c) Support force = weight force

d) Support force = weight force + drag force

**Q4** Which equation would represent the waka ama at a constant speed?

a) Thrust force = drag force

b) Thrust force = weight force x drag force

c) Drag force = weight force

d) Thrust force = weight force + drag force]