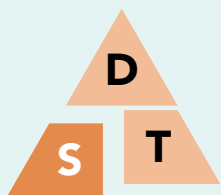
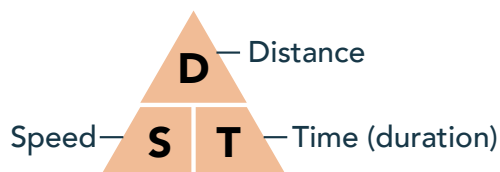




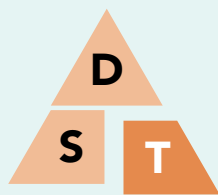
PLANNING YOUR ROUTE

As a wayfinder, it's important to know how to estimate speed, distance, and duration, so you know the best route to take. Duration is also often simply referred to as "time." If you know any two of these numbers (time, speed, distance), you can figure out the other one with just a little math.

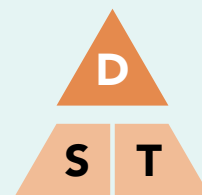
This triangle diagram is a graphic organizer to help you remember how to calculate each variable.



$$\text{Speed} = \frac{\text{Distance}}{\text{Time}}$$



$$\text{Time} = \frac{\text{Distance}}{\text{Speed}}$$



$$\text{Distance} = \text{Speed} \times \text{Time}$$

Try calculating the missing variable in these scenarios:

What distance will a wa'a go if it's traveling at 5 knots in 2 hours?

How fast will a wa'a be going if it's traveled 15 nautical miles in 5 hours?

What distance will a wa'a go if it's traveling 12 knots in 5 hours?

A wa'a must arrive to its destination by 3:00pm. The destination is 35 nautical miles away and it's 10:00am now. If the top speed is 5 knots, can it make it there in time?

How much time will it take a wa'a traveling at 10 knots to go 40 nautical miles?

How fast will a wa'a be going if it's traveled 9 nautical miles in 4.5 hours?

How much time will it take a wa'a traveling at 4 knots to go 10 nautical miles?
