



Name

Pretest

In the picture below, two airplanes are flying on different routes.

The World Airlines plane has flight number **WAL27**.

The speed of Flight WAL27 is 1/2 foot/second.

The National Airlines plane has flight number **NAL63**.

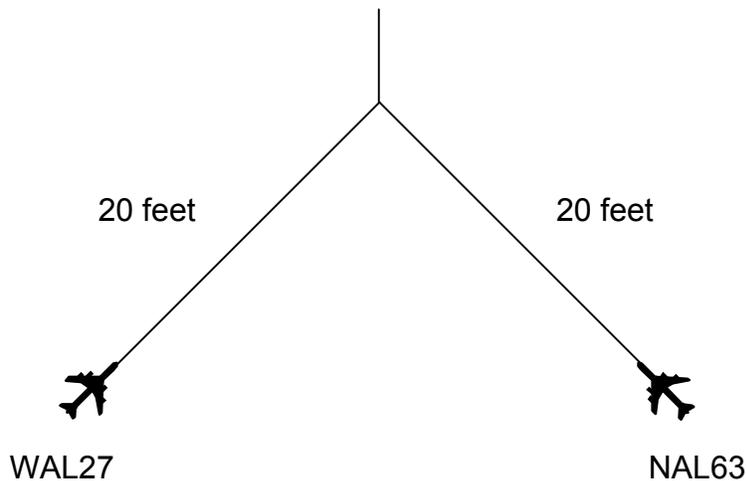
The speed of Flight NAL63 is 1/2 foot/second.

Flight WAL27 is 20 feet away from the point where the two routes intersect (meet).

Flight NAL63 is 20 feet away from the point where the two routes intersect.

1. Do you think the two planes will meet at the point where the two routes intersect? _____
Why or why not? _____

2. If not, how many feet apart do you think the planes will be when the first plane reaches the point where the routes intersect? _____





Name

Posttest

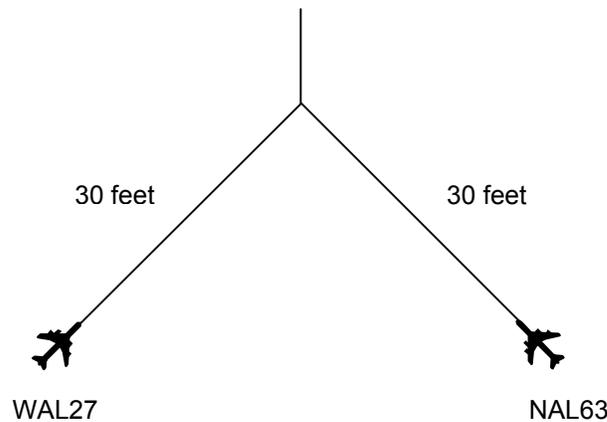
In the picture below, two airplanes are flying on different routes.

The speed of Flight WAL27 is 1 foot/second.

Flight WAL27 is 30 feet from the point where the two routes intersect.

The speed of Flight NAL63 is 1 foot/second.

Flight NAL63 is 30 feet from the point where the two routes intersect.



1. Do you think the planes will meet at the point where the two routes intersect? _____

Why or why not? _____

2. If not, how far apart do you think the planes will be when the first plane reaches the point where the routes intersect? _____



Name

Now consider this general problem.

Two planes are traveling at the same speed on two different routes.

Each plane is the same distance from the point where the two routes intersect.

3. Will the planes meet at the point where the routes intersect? _____

4. If you think two planes will meet, what could you tell the air traffic controllers to do to avoid a collision? _____



Name

Lines and Grid

