Name _____

Pretest

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

The World Airlines plane has flight number **WAL**27.
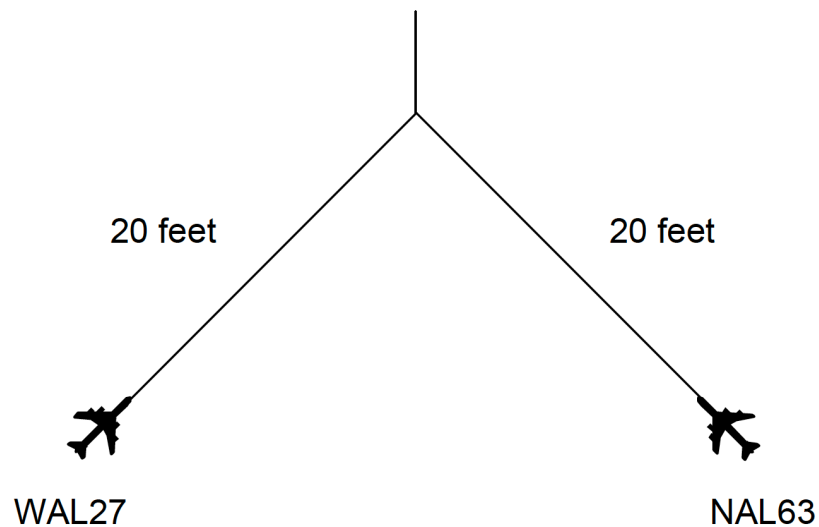The speed of Flight WAL27 is ½ foot/second.

The National Airlines plane has flight number **NAL**63.
The speed of Flight NAL63 is ½ 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?

   _____

20 feet   20 feet

WAL27   NAL63

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 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
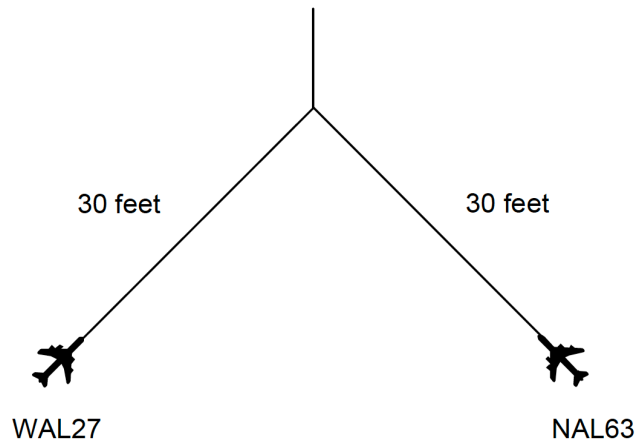   where the routes intersect?

   _____

Name _____

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

Distance traveled

Distance traveled

Time traveled