Midpoint and Distance

Objectives:

❖ Review the midpoint formula and how to use it

   – Find the midpoint between two points

   – Find the endpoint given an endpoint and a midpoint

❖ Use the distance formula to calculate the distance between two points

What is a midpoint?

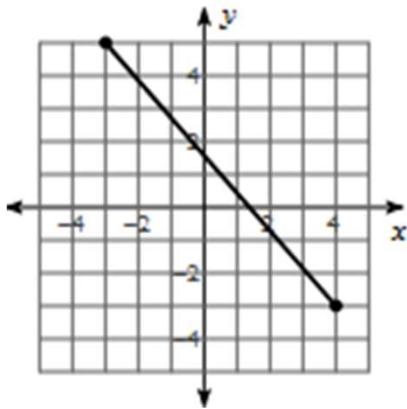What is the average of test scores 40 and 80?

How did you find it?

How would we find the midpoint between two points (-5,2) and (3,2)?

Find the midpoint between each pair of points.

1. (8, -7), (-8, -3)

2.

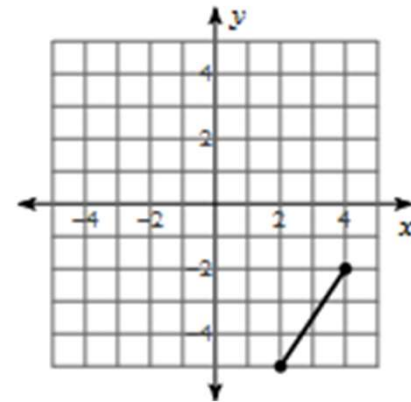Find the other endpoint given the midpoint and an endpoint.

1. Endpoint: (8,7), midpoint: (-5,10)

2. Endpoint: (-2,5), midpoint: (-10, -8)
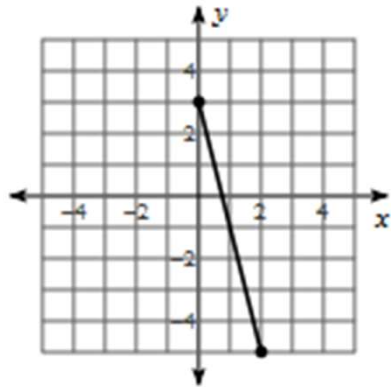
Distance

The distance formula:

Where does it come from?

Find the distance between each pair of points. Write answers as simplified radicals.

1.   (-3, 5), (6, 2)

2.

Find the distance between each pair of points. Round to the nearest tenth, if necessary use your calculator.

1. (4, 5), (8, 0)

2. (7, -8), (6, 0)

Can you….

     find the midpoint between to points?

     find the endpoint given the midpoint and the other endpoint?

     find the distance between two points?

<u>Assignment</u>

Packet 6.0 and XL 6.0
Due at the beginning of class next time
Don't forget to show all your work!