MLEP Intermediate GPS Workshop
Exercise One
Calibrating and Calculating Coordinates

Using "Side A" of the Exercise One Handout complete the following:

Calibrate your ruler to the latitude (the grid lines on the right or left side of the grid):

1 inch equals _____ increment of latitude

Calibrate your ruler to the longitude (the grid lines across the top or bottom of the grid):

1 inch equals _____ increment of longitude

What is the latitude of point A? _____
What is the longitude of point A? _____
The coordinates for point A are? _____

What is the latitude of point B? _____
What is the longitude of point B? _____
The coordinates for point B are? _____

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Using "Side B" of the Exercise One Handout complete the following:

How many seconds are there in a minute? _____
How many minutes are there in a degree? _____
N25° 53' 56" + 82" = _____
W97° 29' 46" + 2' and 73" = _____

Calibrate your ruler to the latitude (the grid lines on the right or left side of the grid):
1 inch equals _____ minutes
1 inch equals _____ seconds
1/16 inch equals _____ seconds (120 seconds ÷ 16)

***Calculate the latitude of point C** (Hint - Because it is easier to add than subtract, use the reference grid line that is below the point for calculating latitude):*

How many 1/16ths are there from the reference grid line to point C?

_____
How many seconds are there from the reference grid line to point C?

_____
What is the latitude of point C (N 47° 04' 00" + ___ seconds)?

_____

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Calibrate your ruler to the longitude (the grid lines across the top or bottom of the grid):
1 inch equals _____ minutes
1 inch equals _____ seconds
1/16 inch equals _____ seconds (120 seconds ÷ 16)

Calculate the longitude of point C *(Hint - Because it is easier to add than subtract, use the reference grid line that is to the right of the point for calculating longitude):*

How many 1/16ths are there from the reference grid line to point C?

_____
How many seconds are there from the reference grid line to point C?

_____
What is the longitude of point C (W 94° 26' 00" + ___ seconds)?

_____

The coordinates for point C are? *N_____*
W_____

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Calculate the latitude of point D:
How many 1/16ths are there from the reference grid line to point D?

_____
How many seconds are there from the reference grid line to point D?

_____
What is the latitude of point D (N 47° 04' 00" + ___ seconds)?

_____

Calculate the longitude of point D:
How many 1/16ths are there from the reference grid line to point D?

_____
How many seconds are there from the reference grid line to point D?

_____
What is the longitude of point D (W 94° 26' 00" + ___ seconds)?

_____

The coordinates for point D are? *N*_____
*W*_____