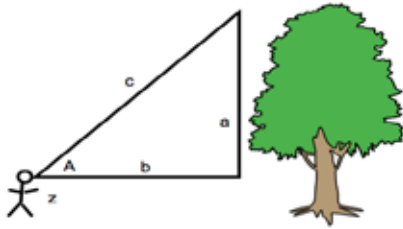


What is the Value of this Tree?

1. Determine the height of your tree.



Find a place to stand where you can see the top of your tree.
Measure the distance from the base of the tree to where you stand with the meter tape.

(b): _____ m

Find the angle on dinometer from your eye to the top of your tree

(A): _____ degrees

Measure the distance from ground to observer's eyes

(z): _____ m

Height of tree = $H = (\tan(A)) * b + z$

$H =$ _____ m

2. Measure the circumference of the tree at chest height.

Circumference of tree: _____ m

(1 inch = 0.0254m)

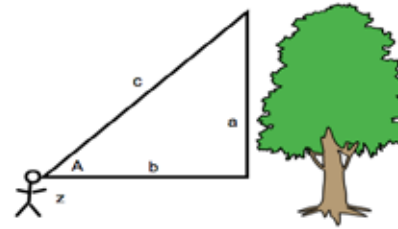
3. Determine the amount of Carbon in the tree (C)

Use the "How Much Carbon Is in a Tree" chart with the height and circumference of your tree.

Total carbon in your tree (C) : _____ kg

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4. Determine the amount of Carbon Dioxide Sequestered by your tree

Using "total C in your tree" from question 3 and knowing that: 500 kg of C is equal to 1,833 kg of sequestered CO₂, then

$(C * 1833) / 500 = \underline{\hspace{2cm}}$ kg of Sequestered CO₂ in your tree

5. Only 23% of the top of the tree will be used for biofuel

Using "total C in your tree" from question 3

$C * .23 = \underline{\hspace{2cm}}$ kg of potential biofuel

6. Determine the amount of jet fuel (in miles travelled) (M) based on the tree

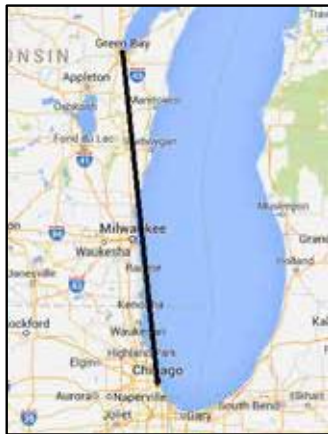
Using kg of potential biofuel from question 5

And knowing that 500 kg of C can fuel a jet to fly 11 miles, then

$(C * 11) / 500 = (M) \underline{\hspace{2cm}}$ miles your tree can fuel

7. How many identical trees are needed for the 175 mile flight between Lambeau Field and Soldier Field?

$175 / M$ (from question 6) = $\underline{\hspace{2cm}}$ trees



Lambeau Field
to Soldier Field
=175 miles

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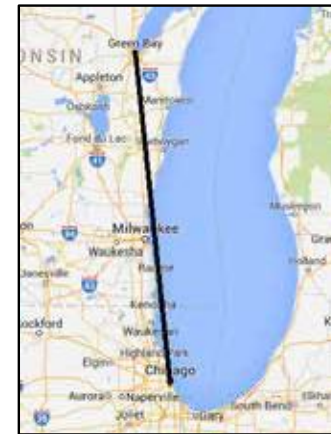
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