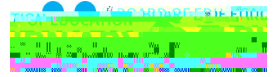


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Grade: Kindergarten (Learning can extend K-7)

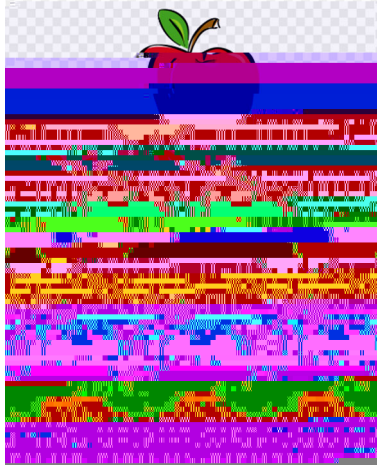


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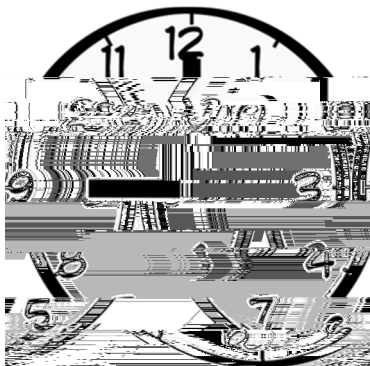
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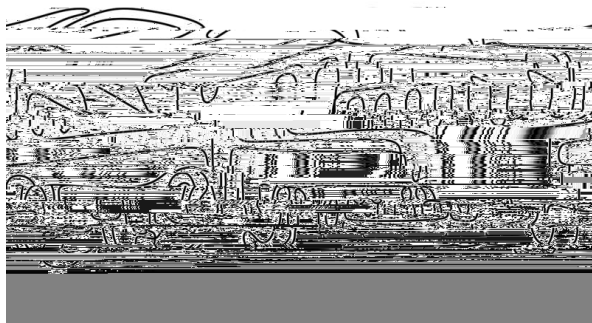
Example of everyday estimation:



You have six apples and four friends.
How many apples can each person
get?



School starts at 9am. What time do
you have to leave your house to get
there before the bell rings?



You see the bus pulling up to the
stop. You have to run to make it
before it leaves? Can you run that
far? Do you have enough time to
catch it?

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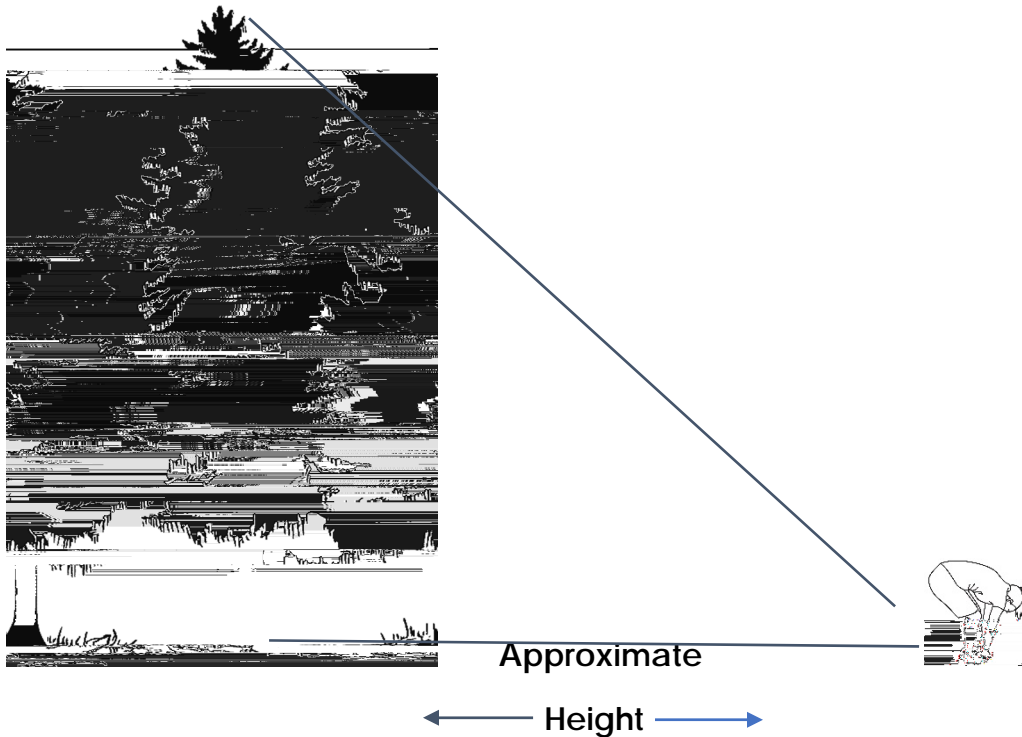


So, how do we use estimation in the harvesting of cedar?

Is this tree tall enough?

How do we quickly measure if a tree is tall enough for us to use for a pole, or a house post, or a canoe that can seat many people?

Simple: You stand with your back to the tree and bend over to look between your legs. If you can see the top of the tree you are at the right distance from the tree. If you cannot see the top of the tree, move further away until you can. Using trigonometry, when you look at the top of the tree at a 45° angle then the height of the tree is the same as the distance you are from the tree.

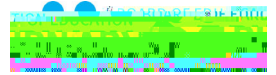


Task Instructions: (Step by Step)

- 1 – Decide on what you want to make out of the cedar tree. A pole, a house post, a canoe, etc....
- 2 – Find a cedar tree in your neighbourhood and estimate how tall it is. Judging from the distance you are from the tree can it be used for what you want to use it for, or do you need to find another one?

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How Old is a Tree?

It is important to know how old a tree is when you are going to harvest it. The older the tree is the better chance for survival it when you harvest parts of it. However, it is the trees that are younger that provide the best bark, where it is straight and no branches that get in the way of having the longest strip from the tree.

Every year, trees add a layer to their trunk. In a good year it will be a thick layer. In a bad year the layer will be thin. Only by chopping down a tree and counting the rings in the trunk will we get an exact age of the tree. How can we

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3 – Place your hands together with the fingers of both hands touching. Place it on the tree. If you were harvesting the bark that would be the width you can strip from the tree. If you were to place your hands together and measure around the tree would you be able to measure it four times around the tree? If you can, that is a rough guess that you are using only $\frac{1}{4}$ of the tree.

* Rule: Only two hands width of bark can be taken.

Extensions (Optional):

When we use resources from the natural world, we express gratitude for the gifts freely given. Think of how you would thank a cedar tree for all that it gives us.

View the YouTube video: Knowledge Keepers Cedar Harvest

<https://www.youtube.com/watch?v=A6KS4J8QyNQ>

What are the teachings we get from this video?

Note: At time 4:17 they are discussing how to pick a tree for harvesting the bark.