



GRADE 9

Numeracy Assessment Tree Planting Task

Booklet Number

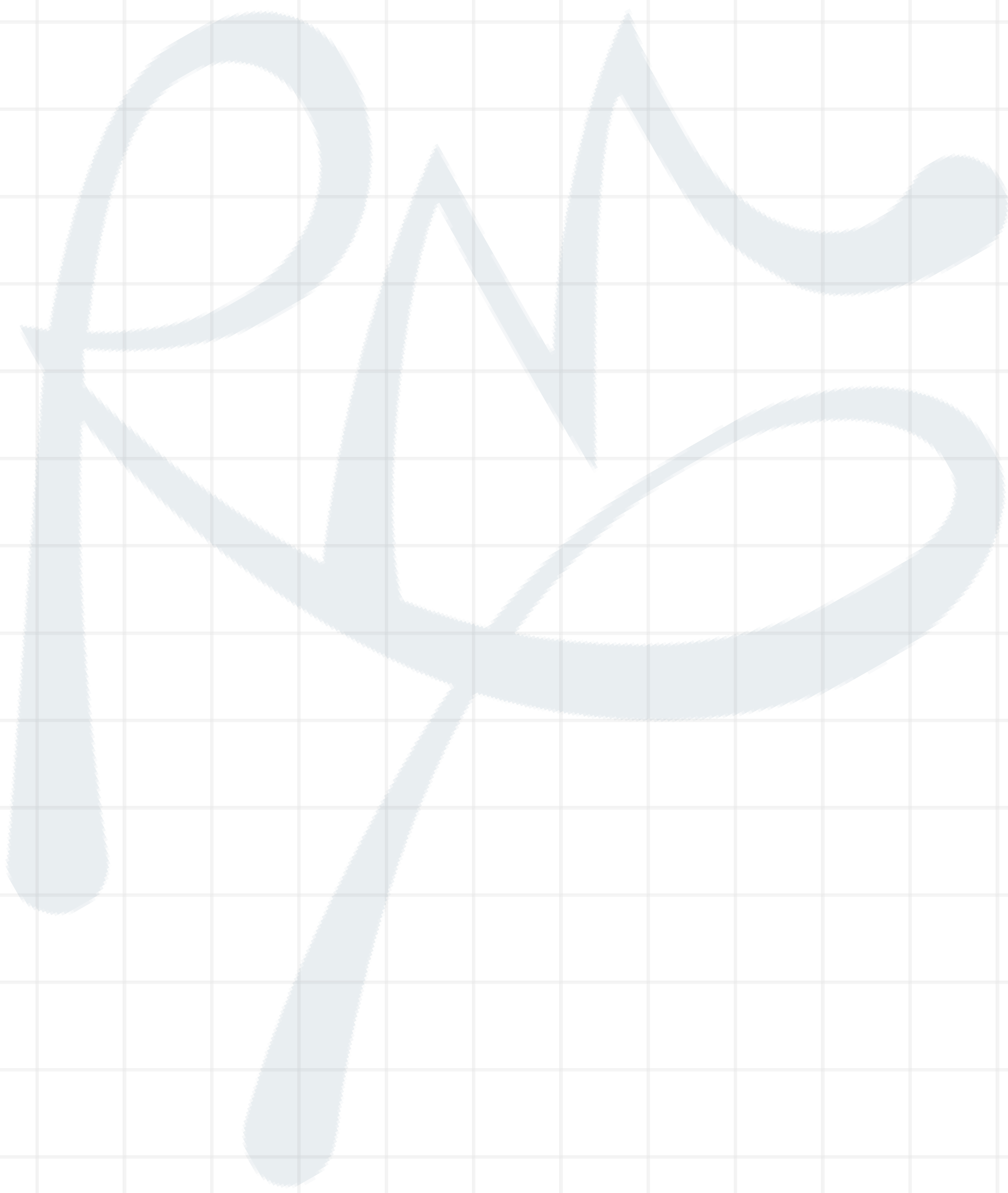
DTSS

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Spring 2023





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Fast forward to May 2027 – you’re looking for a summer job, and you’ve heard that tree planting is a good way to make a lot of money in a short period of time, and an excellent opportunity to see parts of the province you might not otherwise ever visit.

Based on your availability, you have narrowed your choices down to three employers:

- Unbe-leaf-able Forest Management Company
- Guaran-tree-d Groves
- Root-ing for Reforestation

Look at the flyers for each of the three companies, then proceed to the warm-up questions below.

Warm-Up Questions:

Circle the letter of your answer:

1. With which employer would you work the most hours over the summer?
 - a. Unbe-leaf-able Forest Management Company
 - b. Guaran-tree-d Groves
 - c. Root-ing for Reforestation
 - d. They are all the same.
2. Which employer has variable food costs?
 - a. Unbe-leaf-able Forest Management Company
 - b. Guaran-tree-d Groves
 - c. Root-ing for Reforestation
 - d. They are all the same.
3. Which of the following is most likely true?
 - a. As the slope of terrain increases, the rate at which you plant trees also increases
 - b. As the slope of terrain increases, the rate at which you plant trees decreases
 - c. The slope of the terrain has no impact on how fast you can plant trees
 - d. None of these are likely true
4. What is the minimum amount of money you could make with the Unbe-leaf-able Forest Management Company in one week, before you pay for your accommodations?
 - a. \$990
 - b. \$7920
 - c. \$1020
 - d. \$792

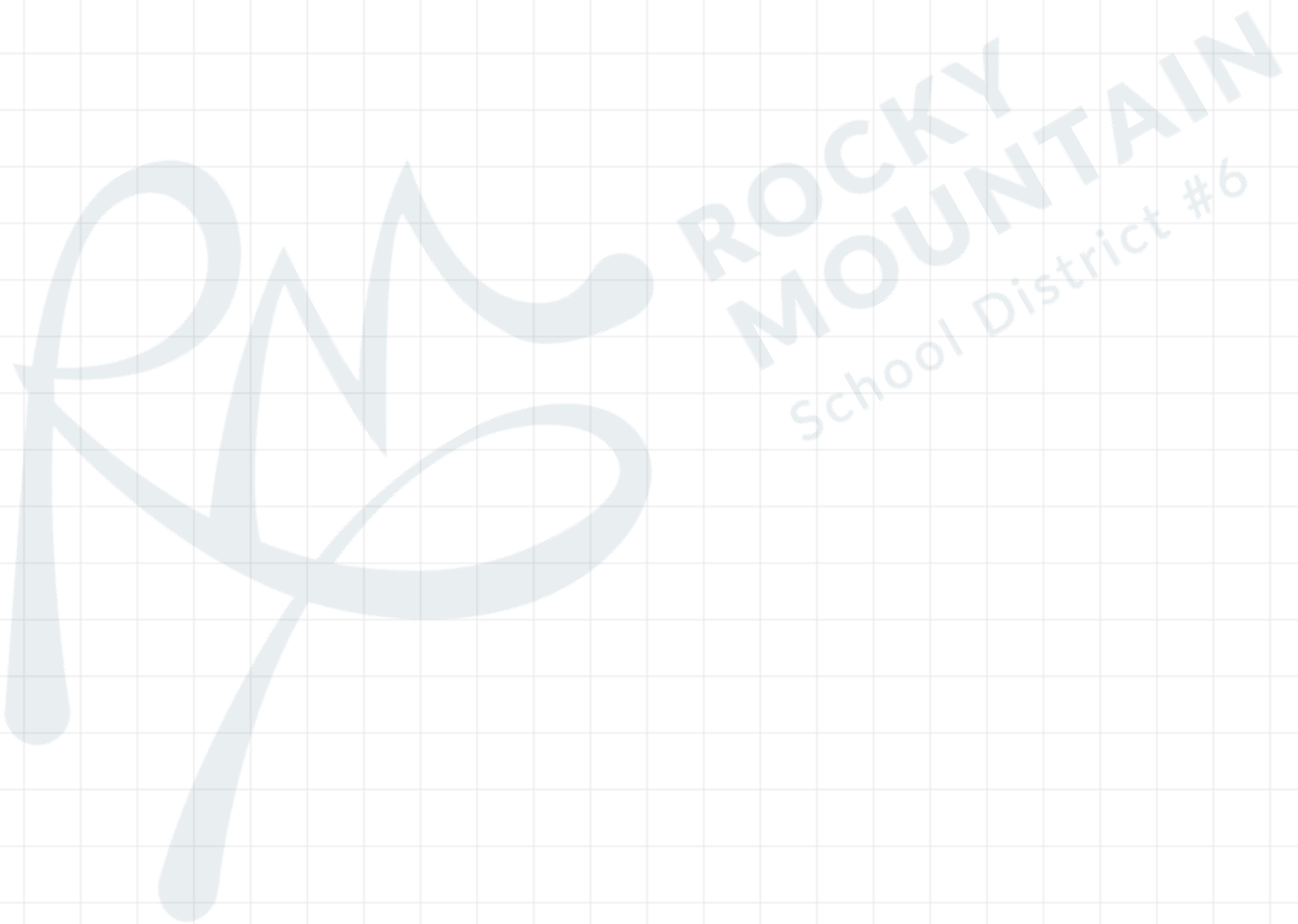
Eliminate one company from consideration. Which one did you choose, and why?

For the remaining two, identify pros and cons for each. Some of this information will likely come from the job flyers, but your own interests, priorities, and preferences may influence how you respond.

	<u>Company Name</u>	<u>Company Name</u>
Pros		
Cons		

Now that you have outlined pros and cons for two companies, which company would you choose to work for? (You must choose one).

What were the most important reasons that influenced your decision?



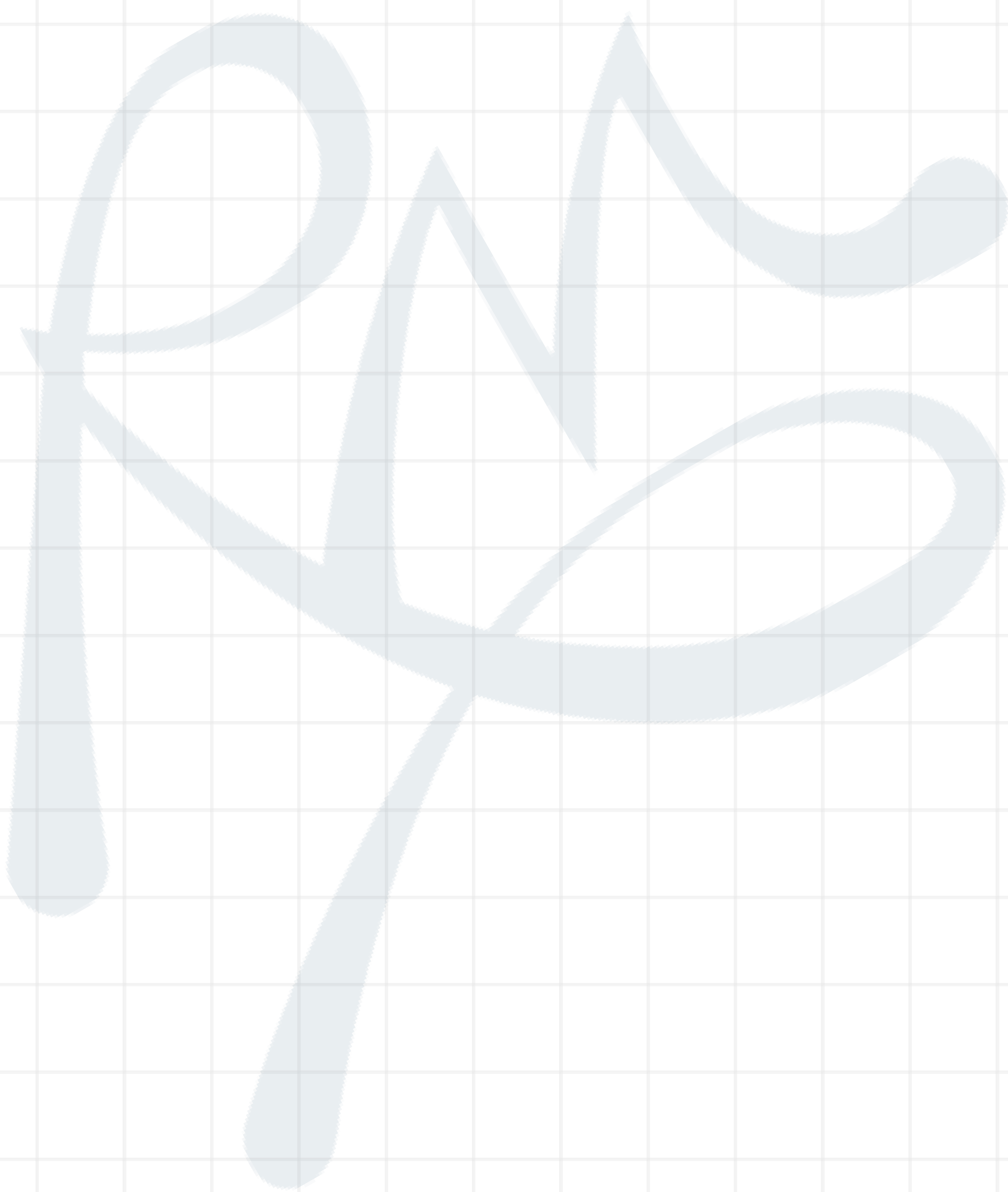
How much money will you take home per week, after you pay for your accommodations, if you plant 100 more than the minimum number of trees each day? Show all of your work to obtain your answer. If you use a calculator, show the operations you entered to get your answer.

How much money will you take home after 8 weeks of work? Show all of your work to obtain your answer. If you use a calculator, show the operations you entered to get your answer.

If your pack and supplies weigh 20kg, and each tree weighs 20g, how much weight are you carrying at the beginning of each day? Assume you start with 25% of the minimum number of trees.

How much weight are you carrying halfway through the day? Explain how you determined the number of trees that you would have left.

Is there any other additional information that you wished was included on the job flyers? Or, are there any questions you would ask the companies before deciding who you wanted to work for?



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