

## High School:

### Fall Foliage

Kate, Janet and Nikki both earn money in the fall by raking and collecting leaves. Table 1 provides details for each person and the time it takes to rake leaves.

**Table 1: Leaf Collecting Businesses**

Name of Person	Time it takes to clear 1 acre of leaves	Expenses	Revenue for each acre
Kate	20 minutes	Pay for leaf blower \$30 per hour	\$20
Janet	30 minutes	Pay for gas to use parents leaf blower \$2.50 per hour	\$15
Nikki	80 minutes	NONE	\$25

1. Write an equation to represent the amount of money ( $y$ ) Kate earns based on ( $x$ ) hours of work.

<b>Equation</b>	
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2. Nikki claims that she earns the most per hour of work. Do you agree or disagree with Nikki's claim? Justify your decision.

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3. Janet claims that they would all earn more money if they worked together. Do you agree or disagree with Janet's claim? Justify your decision.

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