

High School:

Apple Orchard

Table 1 provides the expected harvest and selling price for three types of apples.

Table 1 Types of Apples

Name of Apple	Expected Harvest (in pounds) from 1 Tree	Expected Selling Price per Pound
Gala	350	\$0.75
Fuji	140	\$2.00
Granny Smith	450	\$0.60

1. Kyle's Apple Orchard charges \$5 for entry plus the cost of the apples each visitor picks. Write an equation to show the total cost (y) for 1 person to enter and pick (x) number of pounds of gala apples.

Equation	
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2. Jason claims that the equation $y = 270x$ can be used to represent the revenue (y) based on (x) number of granny smith apple trees. Do you agree or disagree with Jason's claim? Justify your decision.

3. Janice makes apple pies using a combination of fuji and granny smith apples. The recipe uses a ratio of 2 granny smith apples for every 1 fuji apple. One apple pie requires 7 fresh apples. Janice has 42 fresh granny smith apples and 20 fuji apples. How many apple pies can Janice make? Justify your answer.
