

Name: _____ Date: _____

Picking Apples

Anna and Chris are going to pick apples. She sees two orchards next to each other; David's Orchard and Pam's Orchard. The signs below are at the entrance to the orchards.

<p>DAVID'S APPLE ORCHARD Pick your own apples!</p> <p>First 10 pounds \$2 per pound</p> <p>Each additional pound \$1 per pound</p>	<p>PAM'S ORCHARD DELICIOUS APPLES</p> <p>\$10 entry fee</p> <p>First 10 pounds \$1.50 per pound Each additional pound \$0.75</p>
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Anna wants to pick 40 pounds of apples.

1. a. What would her cost be at David's Orchard? _____
Show your calculations.

- b. What would her cost be at Pam's Orchard? _____
Show your calculations.

Chris has \$30 to spend.

2. How many pounds of apples will he get if he goes to David's Orchard? _____
Explain how you figured it out.

3. How many pounds of apples must Chris pick before Pam's Orchard is cheaper than David's Orchard?

Show your work.

4. Kyle owns an orchard nearby. He wants to charge one flat rate per pound for his apples no matter how much someone buys. He wants 16 pounds of apples at his orchard to cost \$1.50 less than 16 pounds of apples at Pam's Orchard. How much should Kyle charge per pound? Show how you found your answer.

Picking Apples	Rubric	
The core elements of performance required by this task are: • work out costs from given rules Based on these, credit for specific aspects of performance should be assigned as follows	points	section points
1. a. Gives correct answer: \$50 Shows correct work such as: $10 \times \$2 + 30 \times \1 b. Gives correct answer: \$47.50 Show correct work such as: $\$10 + 10 \times \$1.50 + 30 \times \$0.75$	1 1 1 1	4
2. Gives correct answer: 20 pounds Give a correct explanation such as: The first 10 pounds of apples cost \$20. The remaining \$10 buys 10 pounds. Altogether $10 + 10 = 20$ pounds.	1 1	2
3. Gives correct answer: more than 30 pounds (accept 31) Shows work such as: David's: $10 \times \$2 + 20 \times \$1 = \$40$ Pam's $\$10 + 10 \times \$1.50 + 20 \times \$0.75 = \40	1 1	2
4. Gives correct answer: \$1.75 Shows work such as: $10 \times 1.5 + 6 \times 0.75 + 10 = 29.50$ $16x = 28$ $x = 1.75$	2 2	4
Total Points		14