THE COUNTY FAIR

Tessa approached Maggie after school one day. "I've got two free passes to the fair, and I was wondering if you'd like to go with me?" she asked.

"I would, but I've already told Michael that I'd go with him," said Maggie. "Maybe you could get a date too, and then we could all go together"

"I would like to go with Dan, but he's so shy he'll never ask me," admitted Tessa.

"I think Michael would ask him, if you'd like," suggested Maggie.

"Well, I really do think it would be fun to go with Dan, and Michael, and you," said Tessa. "But would Dan think I was too pushy if we had Michael ask him?"

"Let me ask Michael what he thinks," suggested Maggie. "If he thinks it is all right, I'll have him go ahead and ask Dan."

The next day the two girls met on the way to school. "Michael asked Dan last night, and it's all set for Saturday," announced Maggie.

"That's really great!" responded Tessa. "I didn't know if I should have let Michael ask Dan, but now I'm sure happy I did!"

"There is one small problem, though," said Maggie. "Both guys are kind of broke, so I said that maybe we could split the costs. Would that be OK with you?"

"I've got a little money saved ahead," said Tessa. "How much do you think it will cost each of us?"

"I'm not certain, but if you can walk home with Michael and Dan and me today, we can talk about it on the way," suggested Maggie.

After the last bell, they all met in front of the school. At first they talked about a lot of other things, but finally Michael mentioned the fair costs. "I'm really pretty broke," he admitted. "Since I started driving the family car the insurance went up $182.00. My dad said I had to pay that extra amount. It took almost four-fifths of what I had saved. If we go to the fair, about all I can afford is to pay for myself."

"Why don't we each pay our own expenses," suggested Tessa. "Then we can all go and have a good time!"

"What do you think it will cost each of us?" asked Dan.

"I know that it is $2.00 each to get in the gate," said Maggie. "Tessa has two free passes, but we'll need to buy two more."

"I heard that the ride tickets are $5.00 for 15 tickets, and most of the rides take 4 tickets," volunteered Michael.

"Don't forget, that if Michael drives his dad's car, it will take some gas," reminded Dan. "It's 27 miles from here to the fairgrounds."

"We might want some money for the games too," said Maggie. "This year I hope I can win a teddy bear!"

"And don't forget about food and drinks," reminded Michael. "I can almost taste those egg rolls and the caramel apples. Yum, yum!"

Name _____   Period _____   Date _____

The County Fair
Problem Set B

Directions: Before attempting these problems read "The County Fair." You will
need to use story information to solve some of them.

Please email your responses to your Math teacher.

1. Maggie, Michael, Tessa and Dan decided to split most of the fair costs as evenly
   as possible. They started by each contributing $1.00 for gas. When they got to the
   fairgrounds, they discovered that they had to pay $1.50 for parking. Then, before
   they could get into the fairgrounds, they had to purchase 2 more gate passes. To
   the nearest dime, what was each person's share of these expenses?

2. They agreed to start with each couple going on 2 rides. They walked around and
   looked at each before deciding. The rides they decided on all happened to cost 3
   tickets each. How many tickets will they need to purchase, and what will the total
   be?

3. Maggie wanted to play the game where players attempt to win prizes by tossing
   dimes into milk bottles. If one dime lands in a bottle, a small prize is given. If
   two do so, a miniature bear is won. With three winning tosses, the player wins a
   large teddy bear. Maggie wanted a large teddy bear. Michael suggested that they
   watch some other players for a while, and see how many tosses it would take for
   each to win a prize. Several gave up before winning, but finally there were 4
   winners of large teddy bears. One player had tossed 89 times, another 112, a third
   only 27, and the last 141. If Maggie wins after throwing the "mean" of these four
   players, what will it cost her to win a large teddy bear?

4. Michael said that he was getting hungry and the others agreed. He ordered two egg rolls and a root beer. Maggie
   had a small coke and a hot dog. Dan ordered two slices of pizza at one stand and went to the other and got a large
   coke. Tessa ate a hamburger and milk. What was the total cost of their food?

Hot dogs	$1.25	Egg rolls	$1.50
Hamburgers	$1.75	BBQ ribs	$2.75
Steak sandwiches	$2.50	Pizza—whole	$8.95
Cokes	$.50 & $1.00	—slice	$1.25
Milk	$ .75	Root beer	$ .75

5. Calculate, as closely as you can, the amount of money each person has spent at the fair so far. Also estimate the
   total amount of money you think Tessa, Dan, Maggie and Michael will spend by the time they get home.
   Explain how you got your estimate.