

# MY MAGICAL SUMMER HOLIDAY

NAME: \_\_\_\_\_

**DUE DATE: SEPTEMBER 5<sup>TH</sup>, 2017**

*This project will be your first Math test grade in 6th Grade. It is due by Tuesday, September 5th, 2017. You may turn it in earlier if you would like.*

*Ireland Drive Middle School  
Summer Enrichment Packet - Math*

## My Magical Summer Holiday

### Introduction

The school year has finally ended and you are ready to celebrate with a great vacation before you enter middle school this fall. Your family of four, parents and one younger sister, have decided to take a magical trip for one week in July to Walt Disney World in Orlando, Florida!

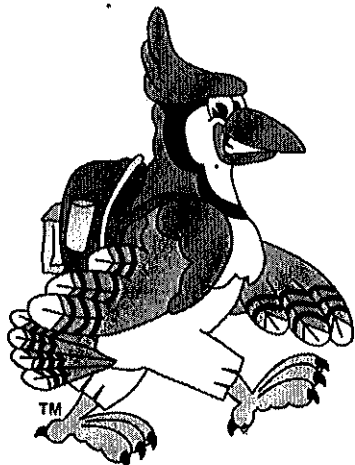
In your week away, you will get to do many fun activities, but you must make some difficult choices. You will have a \$4,700.00 budget to include transportation from Fayetteville to Orlando and back, accommodations, food, and activities for the whole family of four.

Each day you will visit one theme park (see below) and select one other fun activity for your family to enjoy (activities on page 7). Can you stay within your budget? You may have to save on some areas to afford others. These are decisions that you will need to make.

The cost of tickets for Walt Disney World is as follows:

<u>TICKETS:</u>	<u>ADULT:</u>	<u>CHILD: (9 and under)</u>
1 Day Magic Kingdom	\$113.96	\$107.57
1 Day Epcot Center	\$105.44	\$99.05
1 Day Park Hopper (2 parks in 1 day)	\$172.53	\$166.14
4 Park Magic Ticket (purchase by 7/30)	\$79.00	\$74.00

As you work through each section of this trip planning process, please show your work and explain your answer choices.



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It is due by Tuesday, September 5, 2017.

*(You may turn it in earlier if you would like.)*

# Budget Sheet

PART 1

Task 1 - Travel	Calculations (for 4)	Cost
Parent		
Parent		
Younger Sister		
Me		
		<b>TOTAL \$</b>

Task 2 - Accommodation	Calculations (for 4)	Cost
		<b>TOTAL \$</b>

Task 3 - Dinners	Calculations (x4 people)	Cost
Sunday		
Monday		
Tuesday		
Wednesday		
Thursday		
Friday		
		<b>TOTAL \$</b>

Task 4 - Theme Parks & Activities	Calculations (x4 people)	Cost
Sunday: Theme Park		
Sunday: Activity		
Monday: Theme Park		
Monday: Activity		
Tuesday: Theme Park		
Tuesday: Activity		
Wednesday: Theme Park		
Wednesday: Activity		
Thursday: Theme Park		
Thursday: Activity		
Friday: Theme Park		
Friday: Activity		
		<b>TOTAL \$</b>

<b>TOTAL OF ALL EXPENDITURES</b> <i>(Travel, Accommodation, Dinners, Theme Parks, and Activities)</i>	\$
<b>BALANCE Remaining</b> <i>(If any)</i>	\$

# TASK 1 - METHOD of TRAVEL

PART I

## Choose How You Will Travel

COST \$

### CAR

Rents for \$39.00 per day for 7 days.

This car gets 28 miles per gallon and gas costs \$2.76 per gallon.

The trip is 548 miles each way.

\$ \_\_\_\_\_

Show your work:

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### BUS

Tickets are \$87.50 for adults each way.

Tickets are \$44.00 for children (12 and under) one way.

\$ \_\_\_\_\_

Show your work:

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### TRAIN

Train tickets are \$71.00 for each passenger one way.

(Don't forget, you must come home.)

\$ \_\_\_\_\_

Show your work:

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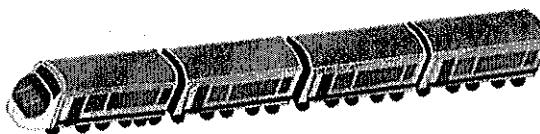
### PLANE

Plane tickets are \$432.00 each for a round trip ticket.

\$ \_\_\_\_\_

Show your work:

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## TASK 2 – Accommodation Options

PART 1

### Choose Your Accommodation

- You will be at Disney World for 6 nights.
- You must make sure each person has a bed.

<b>Choice of Accommodation</b>	<b>Room Cost</b>	<b>Special Offers</b> <small>(Included with cost of room)</small>
Disney's All Star Sport Resort	\$300 for three nights Sleeps 4	1 Free Burgers and Subs Dinner (family of 4).
Disney's Animal Kingdom Lodge	\$319 per night Sleeps 4	1 Free day pass to the Zoo (family of 4).
Disney's Grand Floridian Resort and Spa	\$379 per night Sleeps 4	1 Free day pass to the Aquarium and dinner at The Thai House (family of 4).

*Show your work.*

<p><b>Calculate the cost of your accommodation.</b></p>		
<p><i>Don't forget to add the total costs of your accommodation to the budget page.</i></p>		

### TASK 3 – Dinner Options

PART 1

Choose Your Dinners					
All dinners cost, unless otherwise noted:					
❖ Adult: \$34.99 each (Monday – Friday)					
❖ Child: \$15.00 each (Monday – Friday)					
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Mickey's BBQ  Adult: \$59.99 each  Child: \$35 each	T-Rex	Tiana's Riverboat Party  *Family Pack: \$100	Be Our Guest (French Food)	Sci-Fi Dine-in Theater Restaurant  *Family Pack: \$100	Goofy's Grill
Catch of the Day (Seafood)  Adult: \$59.99 each  Child: \$35 each	Spice Road (Mexican Food)	Pizza and Pasta	Nine Dragons (Asian, Chinese Food)  *Family Pack: \$100	The Thai House	Burgers and Subs (Sandwiches)
*Family Pack includes four (2 adults and 2 children).					

Show your work.

Calculate the cost of dinners for your family each day.					
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Calculate cost of dinner/meals for your family.					
Don't forget to add the total costs of your dinners to the budget page.					

# TASK 4 – Theme Park & Activities

PART 1

Choose Your Activities					
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
<b>3D – Cinema</b> Adult: \$17.99 each Child: \$14.99 each	<b>Scuba Diving</b> Adult: \$36.25 each Child: \$18.25 each	<b>Museum</b> Adult: \$15.50 each Child: FREE	<b>Aquarium</b> Adult: \$22.75 each Child: \$13.25 each	<b>Disney's Animal Zoo</b> Adult: \$35 each Child: \$23 each	<b>Water Park</b> Adult: \$30.71 each Child: \$24 each
<b>ESPN Wide World of Sports Complex</b> Adult: \$18 each Child: \$13 each	<b>Enchanted Tales</b> (with your favorite Disney character) *Family Pack: \$80	<b>Boat Tour</b> Adult: \$27.75 each Child: \$16.25 each	<b>Tomorrowland Speedway</b> \$15 per person	<b>Arcade</b> \$20 per person	<b>Haunted Mansion</b> *Family Pack: \$79
*Family Pack includes four (2 adults and 2 children).					

*Show your work.*

Calculate the cost of your Theme Parks & Activities for each day.  
 Remember: Each day you will select one theme park (page 1) and an additional fun activity, from the list above.

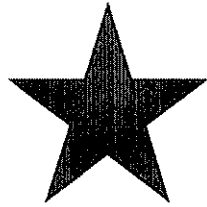
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Calculate cost of <u>theme parks</u> for your family.					
Calculate cost of activities for your family.					
<i>Don't forget to add the total costs of your theme parks and activities to the budget page.</i>					



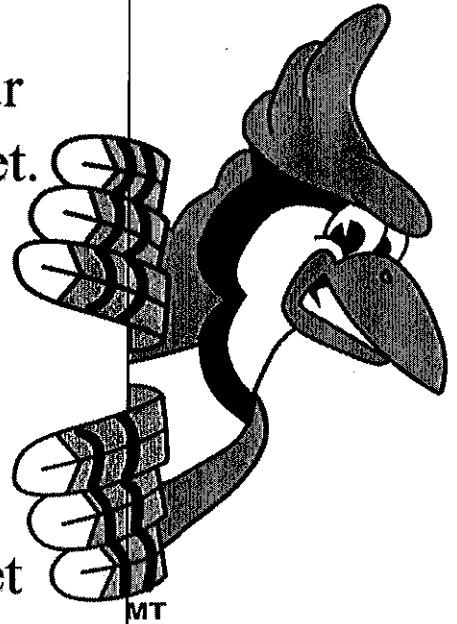


## PART 1

Alright! You have finished your  
Magical Summer Holiday Budget.



Please make sure all tasks are  
completed and your budget sheet  
is finalized.



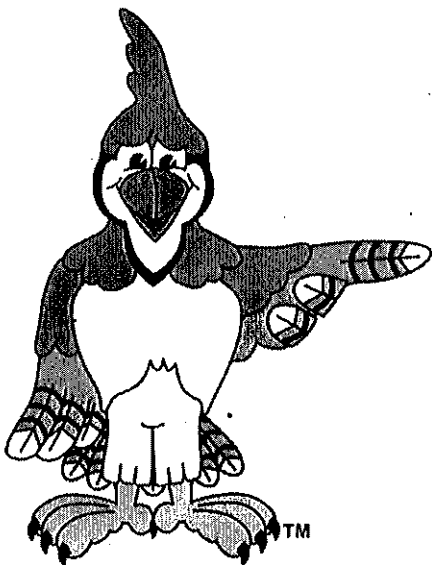
*Moving on...*

## PART 2

The following pages contain  
mathematical problems relating to  
your trip.

Please remember to

***show your work!***



# Mathematical Problems

PART 2

*(Does not count towards your budget costs.)*

1) Look back at the Budget Sheet. Write the total of all expenditures in expanded form.

2) Look back at the Budget Sheet. Find the activities section. Compare the following using  $<$ ,  $>$ , or  $=$

(a)	Sunday's Total Cost \$		Monday's Total Cost \$
(b)	Tuesday's Total Cost \$		Wednesday's Total Cost \$
(c)	Thursday's and Friday's Total Cost \$		Sunday's Total Cost \$

3) Look back at the Budget Sheet. Find the dinner section. Round the following to the nearest tenths place.

(a) Friday's Cost \_\_\_\_\_

(b) Wednesday's Cost \_\_\_\_\_

(c) Monday's Cost \_\_\_\_\_

(d) Tuesday's Cost \_\_\_\_\_

(e) Thursday's Cost \_\_\_\_\_

(f) Sunday's Cost \_\_\_\_\_

## Mathematical Problems

PART 2

*(Does not count towards your budget costs.)*

On your way to Disney, your dad stopped at a gas station to get snacks and gas.

1. Your sister purchased 3 candy bars for \$2 each, a drink for \$3 and 2 bags of chips for \$2.50 each. Write and evaluate an expression that can be used to determine the cost of her items.

2. Your dad has a coupon for \$4 off your purchase, if you spend \$20 or more. How much more do you need to spend to be able to use the coupon?

3. Your mother has several containers of juice for your younger sister. Two containers hold 64 ounces each and four containers hold 48 ounces each. How many total ounces do the containers hold?

4. Your family had to rent a car to use for your trip. Fill in the table to determine the distance the car could travel given the gallons of gas.

Gas (in gallons)	Distance (in miles)
5	140
6	168
7	
	224

## Mathematical Problems

PART 2

*(Does not count towards your budget costs.)*

### Choose your Snacks

Disney is going to allow you to carry your own snacks into the park.

- You have chosen the following snacks to fill your picnic basket each day for your family to enjoy.
- Fill the basket completely so you don't go hungry.
- Find out how much space you have. ( $V = L \times W \times H$ )
- Calculate how many packs of each snack you can fit inside the picnic basket.



Picnic Basket:  $8 \times 12 \times 8 = \underline{768}$

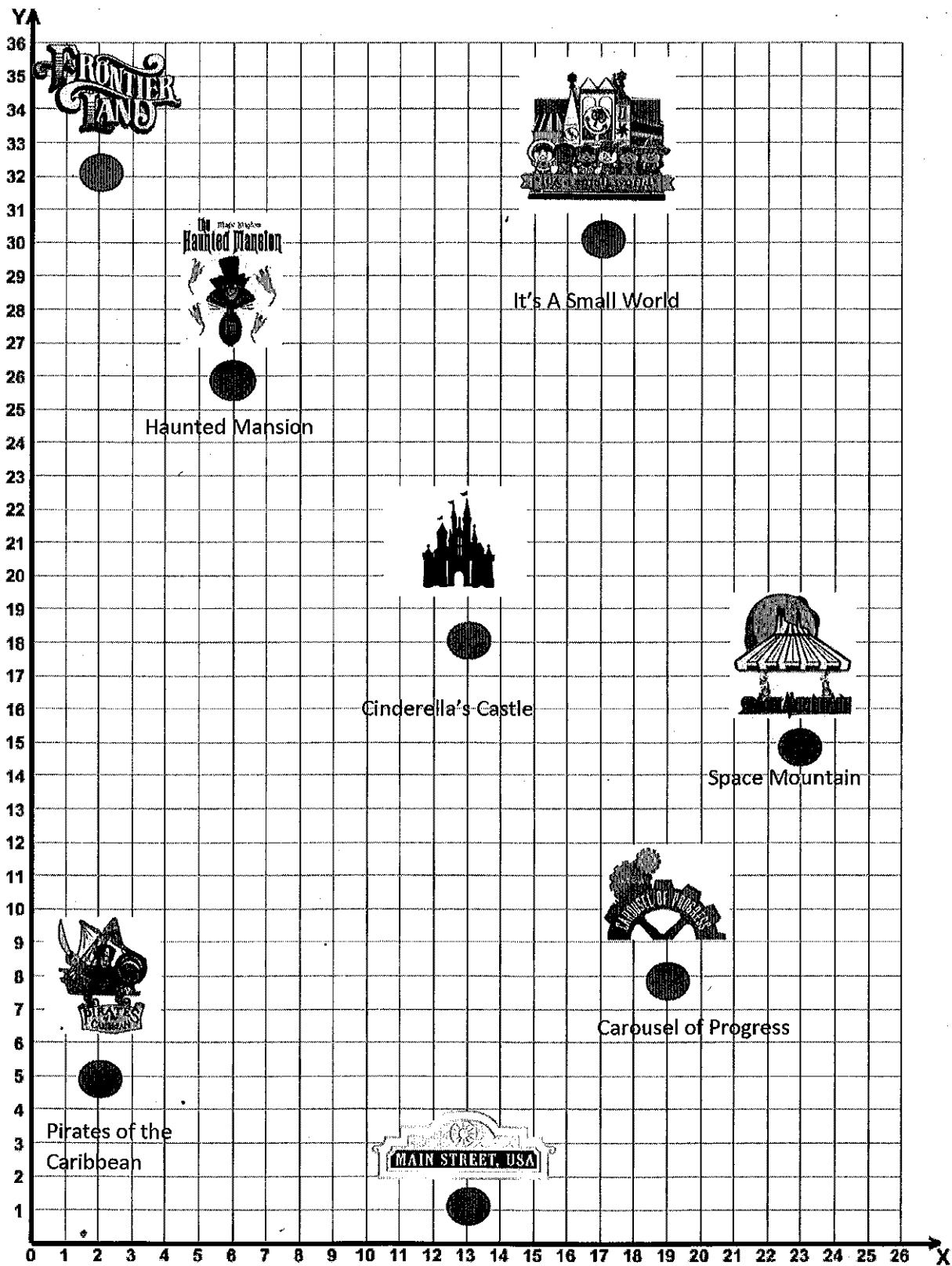
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Oreos	Goldfish	Potato Chips	Pudding Cups	Granola Bars	Snack Crackers
Each Pack: $4 \times 6 \times 2$	Each Pack: $3 \times 3 \times 7$	Each Pack: $6 \times 6 \times 1$	Each Pack: $4 \times 4 \times 4$	Each Pack: $2 \times 8 \times 4$	Each Pack: $4 \times 6 \times 2$
<b>Example:</b>  $4 \times 6 \times 2 = 48$  Picnic Basket $8 \times 12 \times 8 = 768$  $768/48 = 16$					
16 Oreo packs will fit into the picnic basket.					

# Mathematical Problems

PART 2

*(Does not count towards your budget costs.)*

## Geometry – Graphing





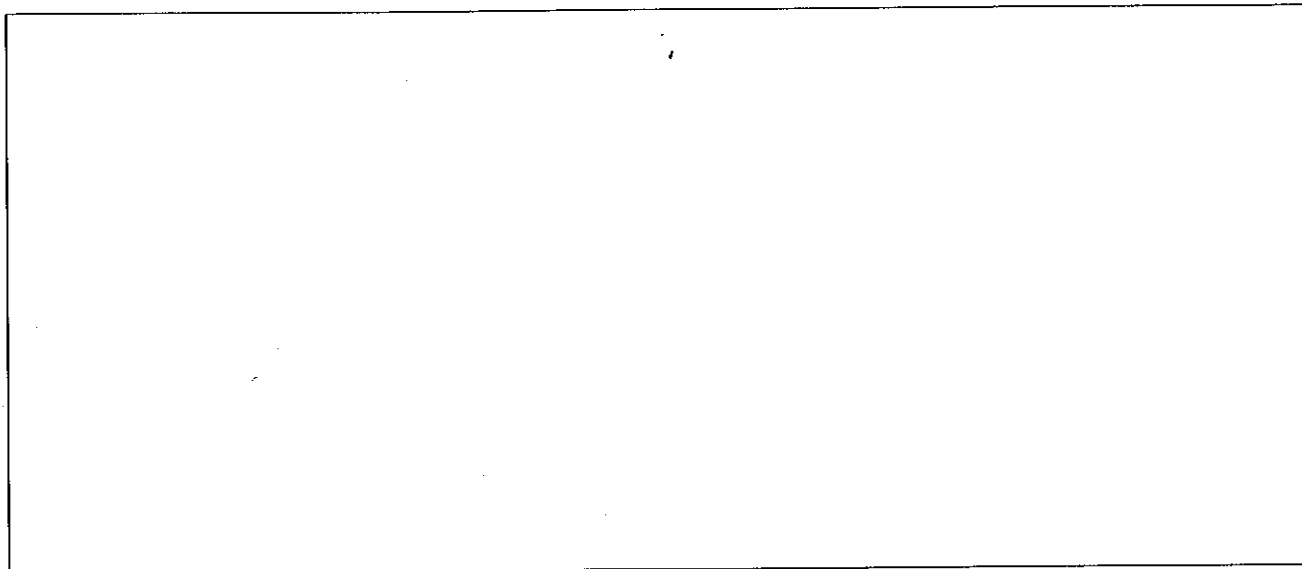
## Mathematical Problems

PART 2

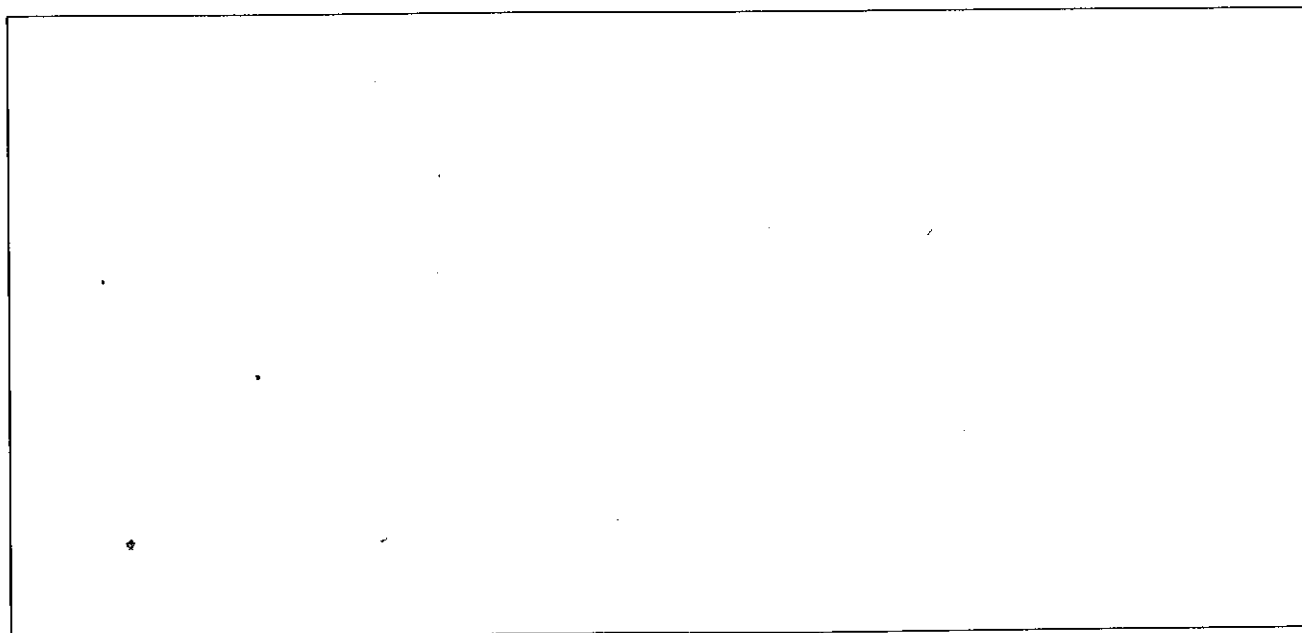
*(Does not count towards your budget costs.)*

### Travel Situations Involving Fractions

1. Mother bought a bag of pistachios for a snack while you travel. According to the bag, one serving of pistachios is  $\frac{7}{8}$  ounce. When you get the bag from your sister, there is  $\frac{1}{4}$  ounce of pistachios remaining. How many servings remain in the bag?  
*Show your work.*



2. Dad's old car can use a lot of gas over time. His car can go  $12\frac{1}{4}$  miles per gallon. How far can Dad's car go if he uses  $24\frac{1}{2}$  gallons before filling up with gas again?  
*Show your work.*



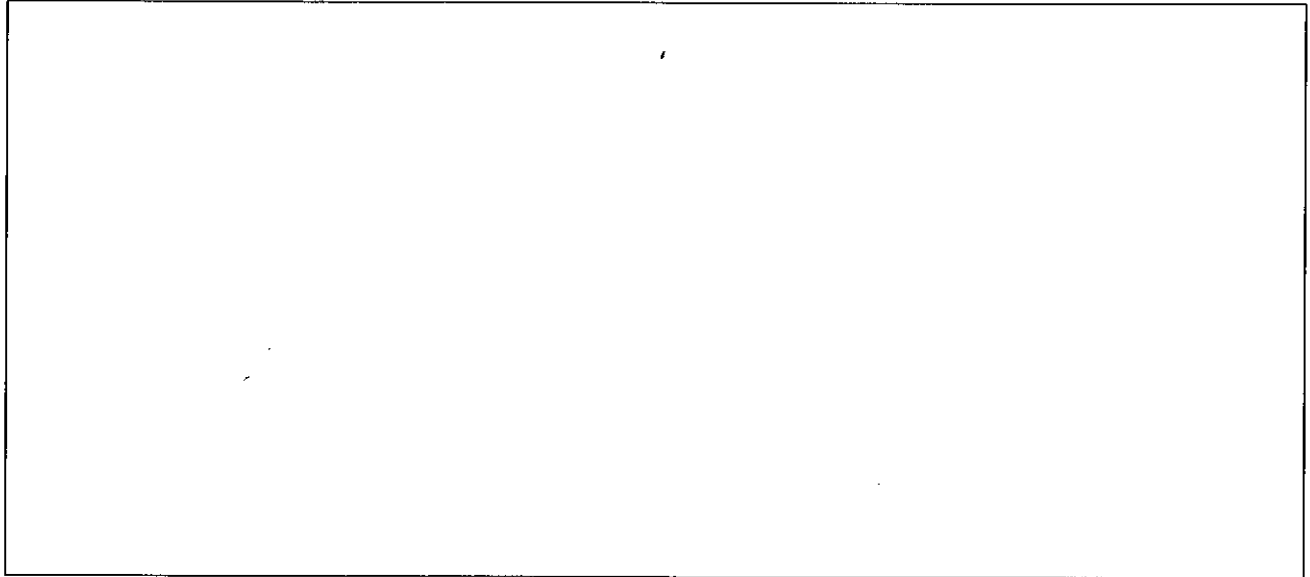
## Mathematical Problems

PART 2

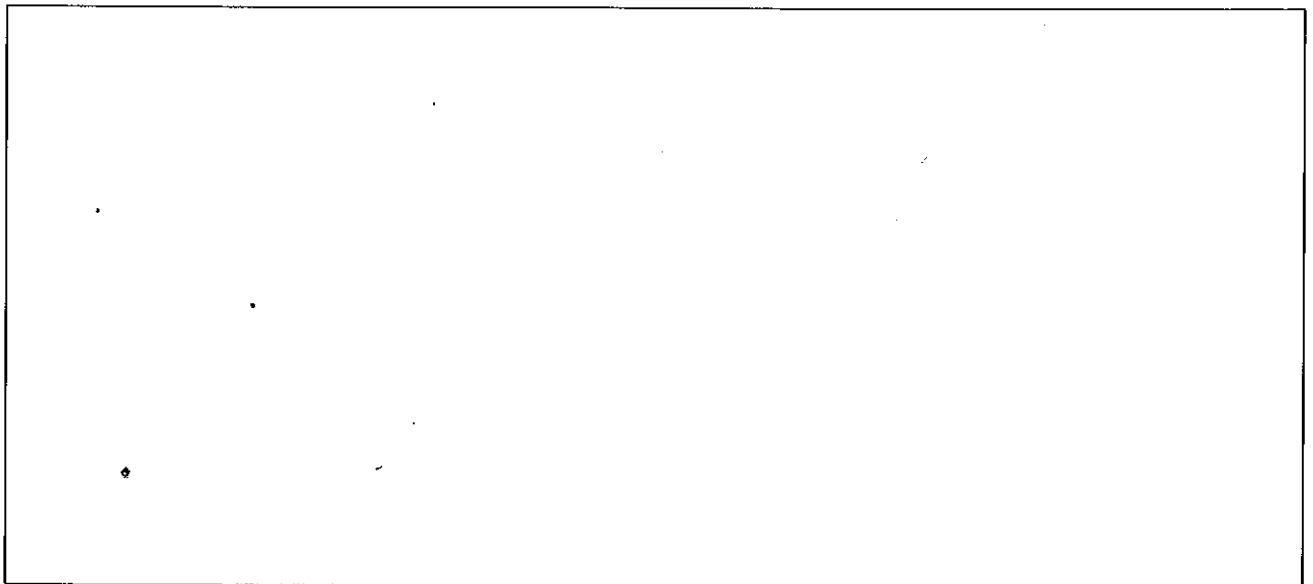
*(Does not count towards your budget costs.)*

### Travel Situations Involving Fractions *(continued)*

3. While waiting in line, your sister and you were bored. During this time, you both spotted a snail moving on the floor. You both calculated that the snail was moving at a rate of  $\frac{1}{8}$  inch per minute. The snail moved  $1 \frac{1}{3}$  inches while you were waiting in line. How long did it take for the snail to move that distance? *Show your work.*



4. Father bought milk for your whole family (4 people) to drink while walking around with the heat of Florida on your backs. He has  $3 \frac{1}{2}$  cups of milk to divide equally among everyone. How many cups of milk does each person receive? *Show your work.*





## Mathematical Problems

PART 2

*(Does not count towards your budget costs.)*

### Travel Situations Involving Fractions *(continued)*

5. Situation: One afternoon, after spending all morning walking around and going on fun and crazy rides, your family and you were starving by lunchtime. Your family decided that pizza would really hit the spot! You decided to eat at Pizzafari and ordered two pies, costing \$10.95 each (and don't forget the 15% tip!) Do you know how much money your family spent on pizza that afternoon?

*Calculations for cost of 2 pizzas:*

#### **Directions:**

First, cut the pizza in eighths (so that each pie has 8 equal slices).

- Your dad was one hungry hippo and ate 5 slices.
- Your mom says she is watching her figure but ate 4 slices anyway.
- Your sister ate 2 slices and you ate 3 slices.

Put what everyone ate in a fraction form from the TOTAL amount of pizza ordered. Use the slices you have cut out. After using your slices, don't forget to simplify if necessary.

What fraction did you devour alone? \_\_\_\_\_

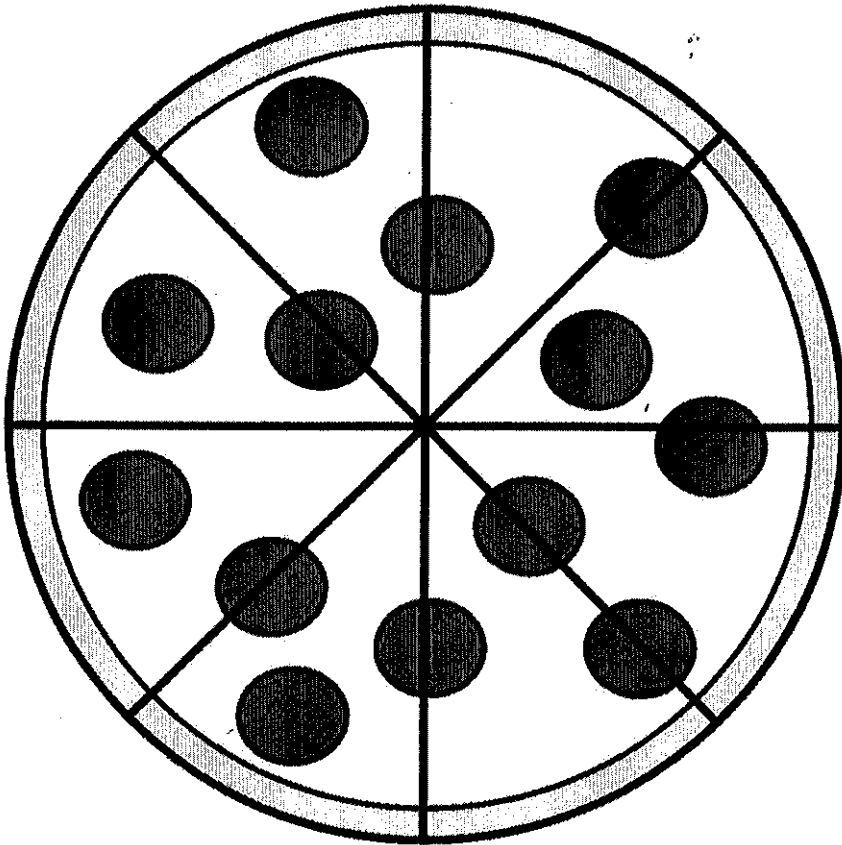
What is the fraction of what your sister and you ate? \_\_\_\_\_

What is the fraction of what your parents consume? \_\_\_\_\_

What fraction is leftover? \_\_\_\_\_

What fraction would you have eaten if you ate twice as much? \_\_\_\_\_

What would the fraction be if your sister ate 3 times as much? \_\_\_\_\_



For use with question 5 on page 16.  
Cut both pizzas into eighths.

