

MY MAGICAL SUMMER HOLIDAY

NAME: _____

DUE DATE: SEPTEMBER 5TH, 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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Budget Sheet

PART 1

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

Task 2 - Accommodation	Calculations (for 4)	Cost
		TOTAL \$

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

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		
		TOTAL \$

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

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TOTAL \$		

Task 2 - Accommodation	Calculations (for 4)	Cost
TOTAL \$		

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

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		
TOTAL \$		

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

TASK 1 - METHOD of TRAVEL

PART 1

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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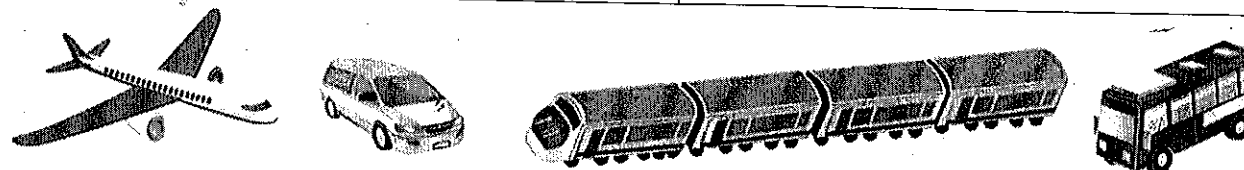
PLANE

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

\$ _____

Show your work:

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TASK 3 – Dinner Options

PART 1

Choose Your Dinners					
<p>All dinners cost, unless otherwise noted:</p> <ul style="list-style-type: none"> ❖ 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)
<p><i>*Family Pack includes four (2 adults and 2 children).</i></p>					

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.					
<p><i>Don't forget to add the total costs of your dinners to the budget page.</i></p>					

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*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
3D – Cinema Adult: \$17.99 each Child: \$14.99 each	Scuba Diving Adult: \$36.25 each Child: \$18.25 each	Museum Adult: \$15.50 each Child: FREE	Aquarium Adult: \$22.75 each Child: \$13.25 each	Disney's Animal Zoo Adult: \$35 each Child: \$23 each	Water Park Adult: \$30.71 each Child: \$24 each
ESPN Wide World of Sports Complex Adult: \$18 each Child: \$13 each	Enchanted Tales (with your favorite Disney character) *Family Pack: \$80	Boat Tour Adult: \$27.75 each Child: \$16.25 each	Tomorrowland Speedway \$15 per person	Arcade \$20 per person	Haunted Mansion *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 theme parks for your family.					
Calculate cost of activities for your family.					
Don't forget to add the total costs of your theme parks and activities to the budget page.					

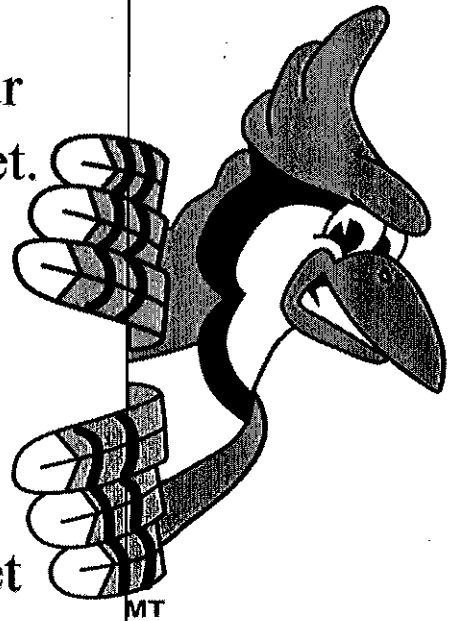


PART 1

Alright! You have finished your
Magical Summer Holiday Budget.



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



MT

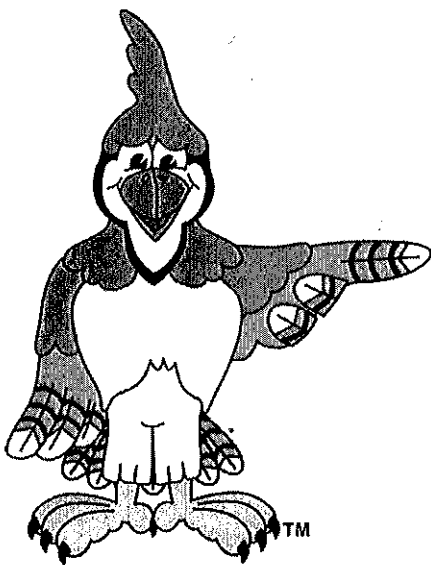
Moving on...

PART 2

The following pages contain
mathematical problems relating to
your trip.

Please remember to

show your work!

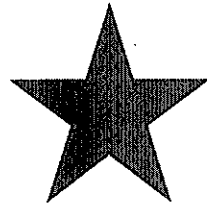


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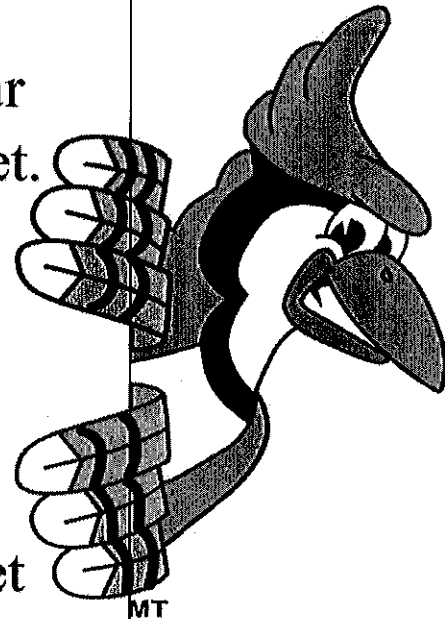


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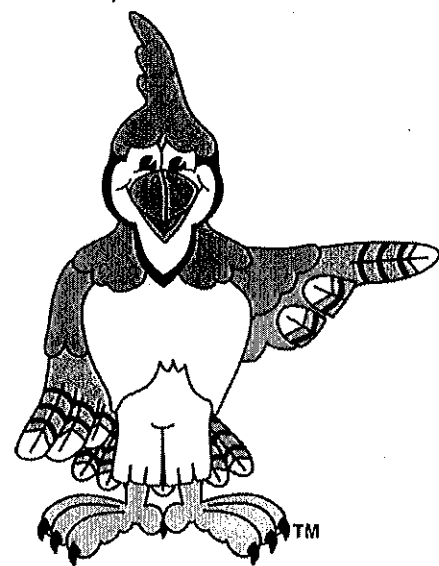
Moving on...

PART 2

The following pages contain mathematical problems relating to your trip.

Please remember to

show your work!



TM

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.)

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Gas (in gallons)	Distance (in miles)
5	140
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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.



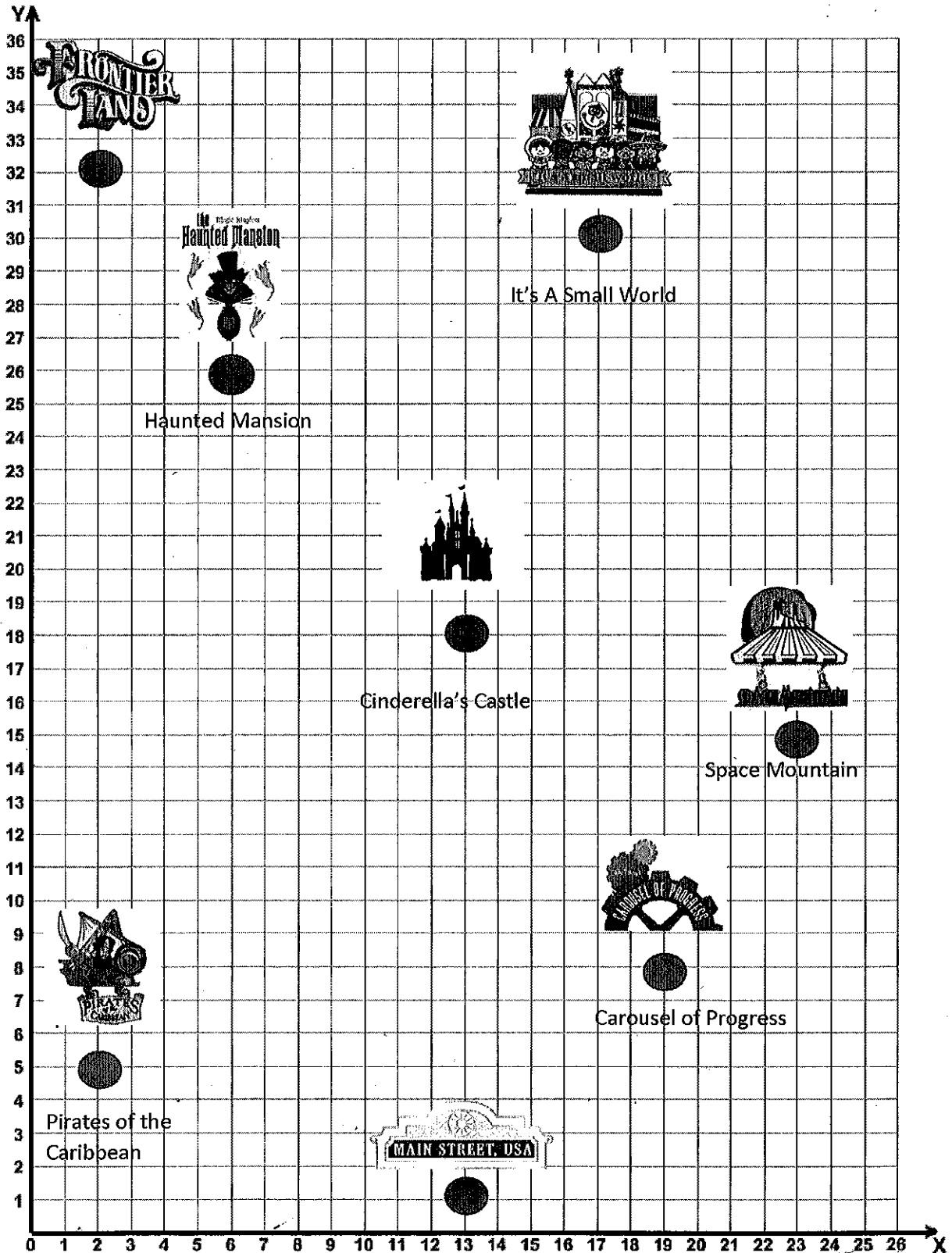
Picnic Basket: $8 \times 12 \times 8 = 768$

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: $4 \times 6 \times 2$
Example: $4 \times 6 \times 2 = 48$ Picnic Basket $8 \times 12 \times 8 = 768$ $768/48 = 16$					
16 Oreo packs will fit into the picnic basket.					

Mathematical Problems

(Does not count towards your budget costs.)

Geometry – Graphing



Mathematical Problems

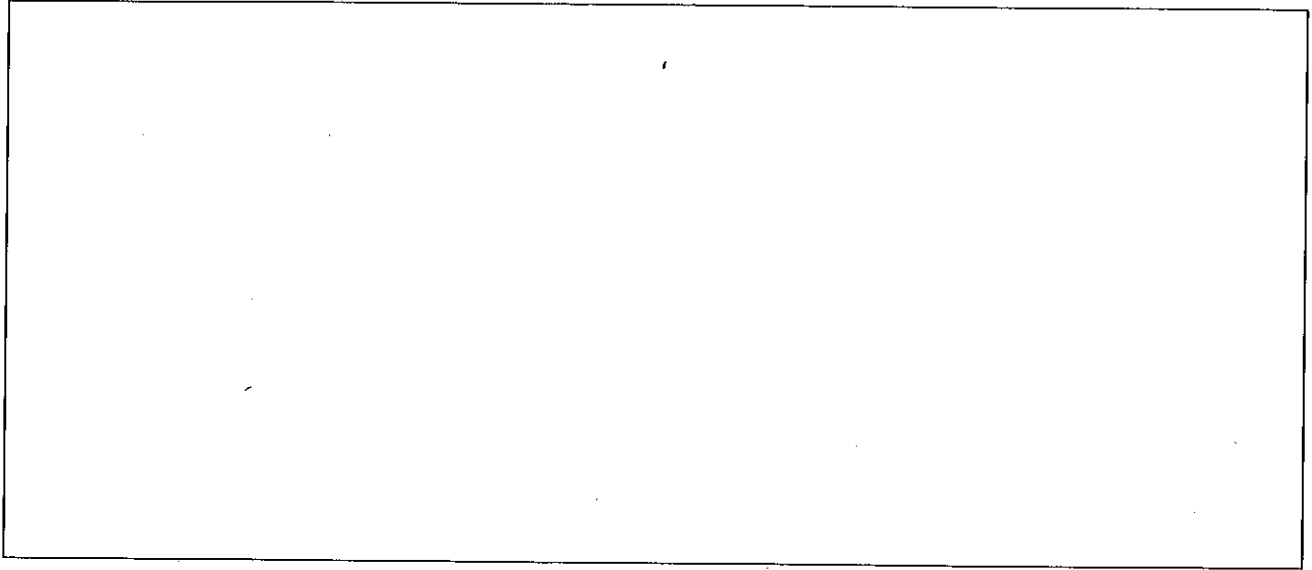
PART 2

(Does not count towards your budget costs.)

Travel Situations Involving Fractions

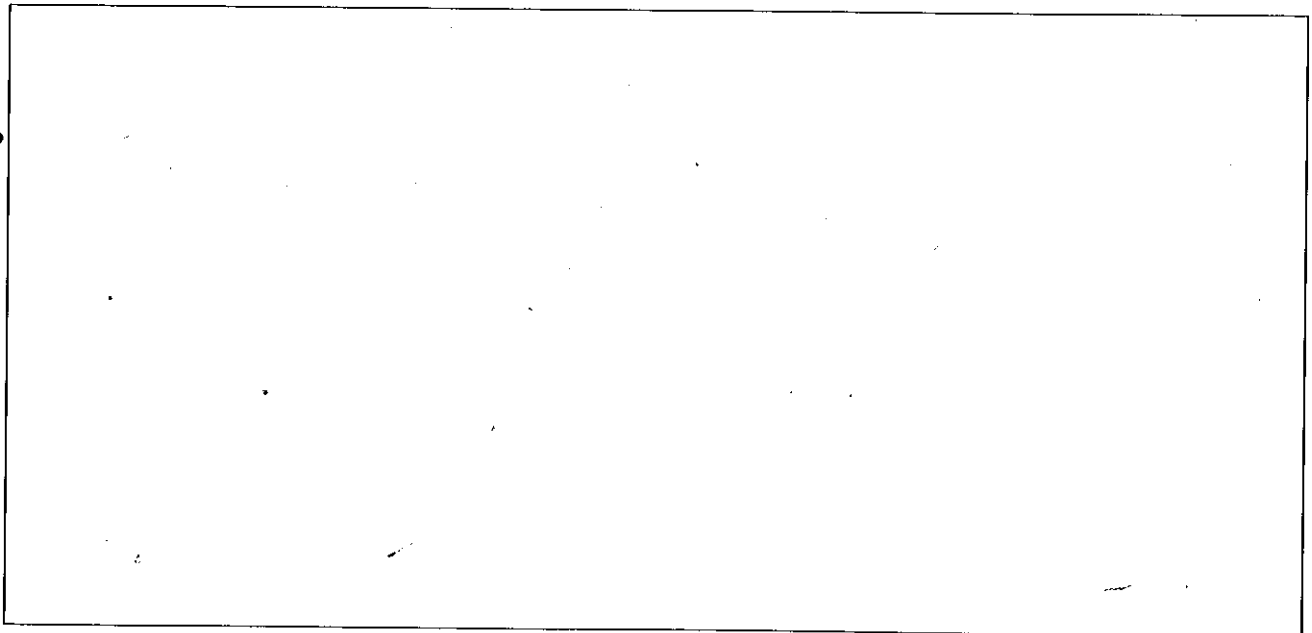
1. Mother bought a bag of pistachios for a snack while you travel. According to the bag, one serving of pistachios is $\frac{7}{8}$ ounce. When you get the bag from your sister, there is $\frac{1}{4}$ ounce of pistachios remaining. How many servings remain in the bag?

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

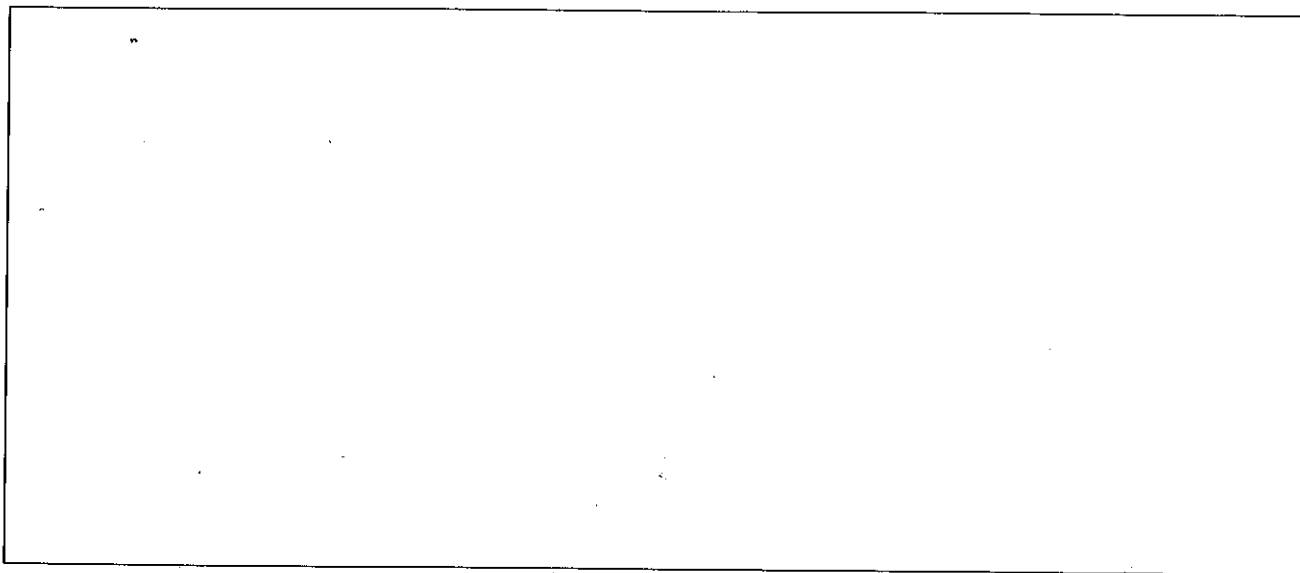
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PART 2

Travel Situations Involving Fractions

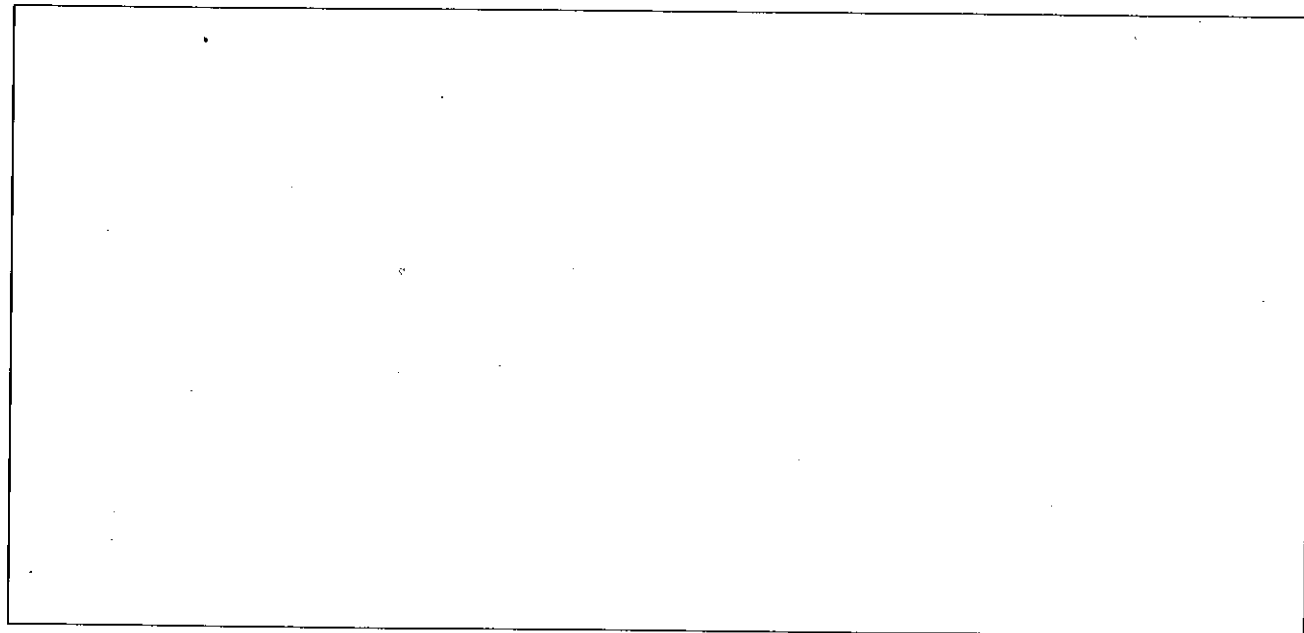
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Show your work.



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Show your work.



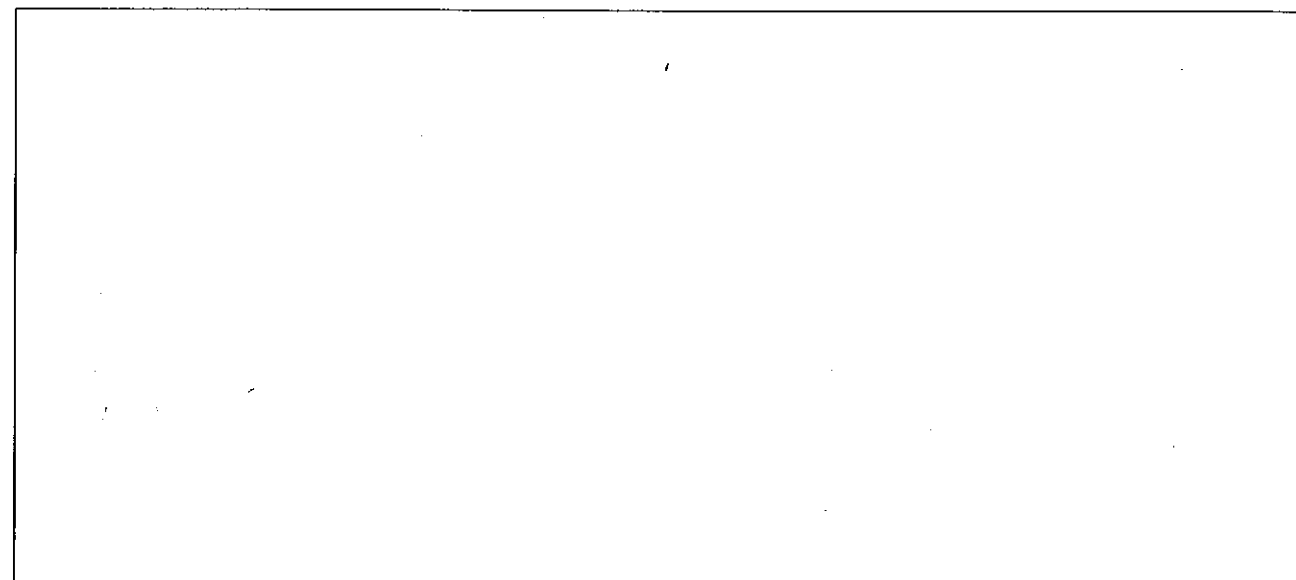
Mathematical Problems

(Does not count towards your budget costs.)

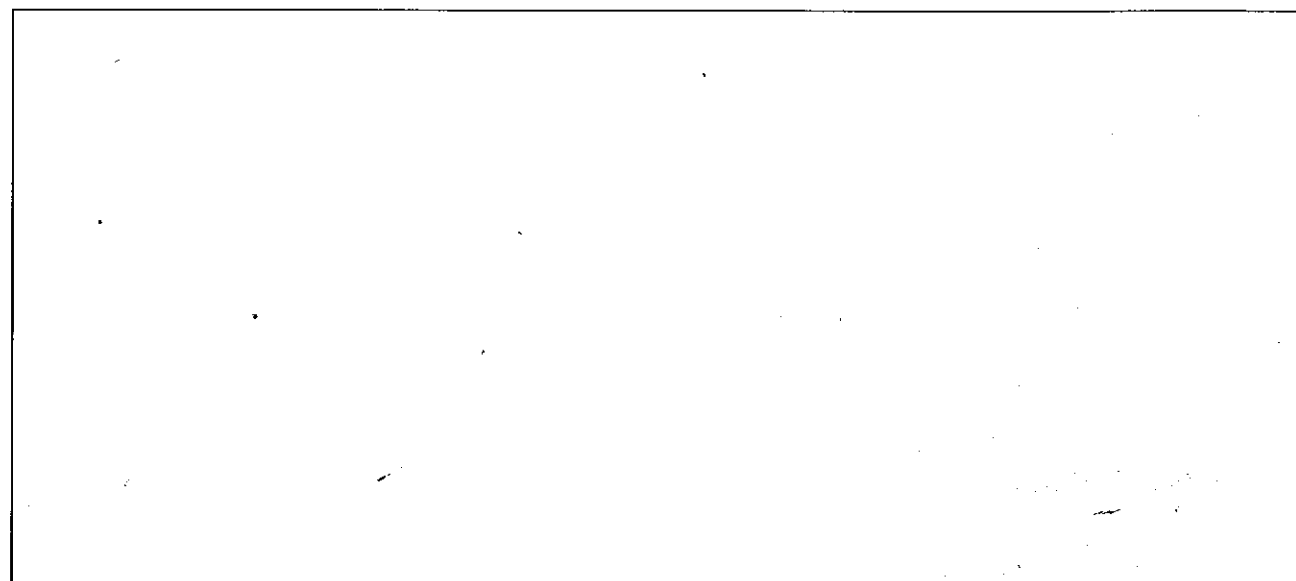
PART 2

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? _____

Mathematical Problems

(Does not count towards your budget costs.)

PART 2

Travel Situations Involving Fractions (continued)

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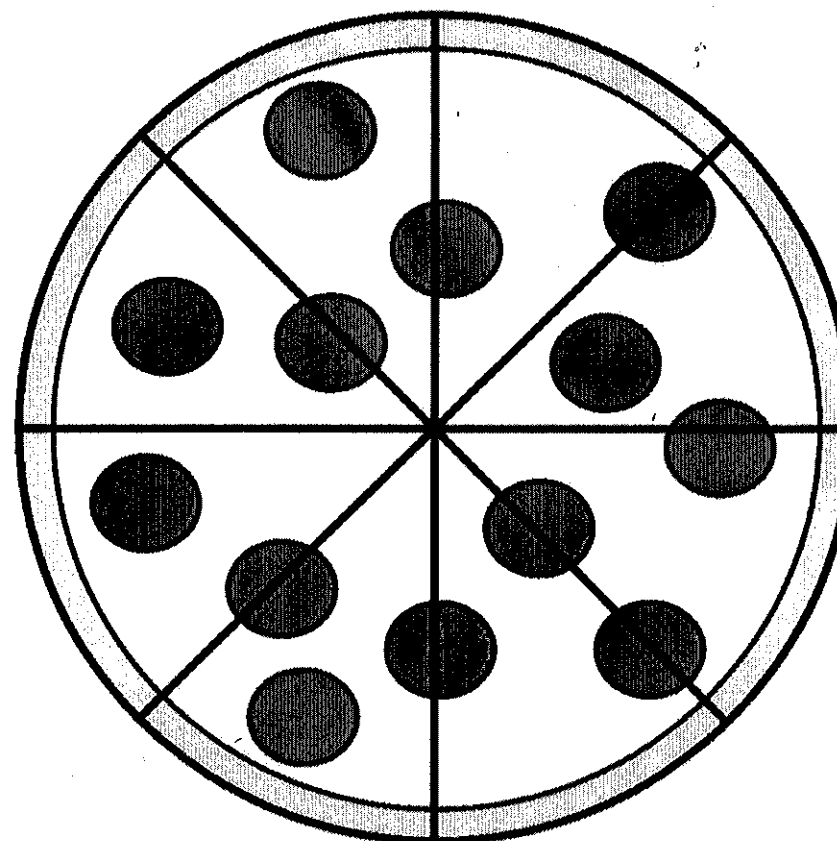
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What fraction is leftover? _____

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For use with question 5 on page 16.

Cut both pizzas into eighths.

