

**Title: Touring Delmarva**

**Link to Outcomes:**

- **Problem Solving** Students will solve problems in mathematics in a real life situation, including problems with open ended answers, with/without use of a calculator, in a cooperative atmosphere.
- **Communication** Students will demonstrate their ability to communicate mathematically using daily logs and scales.
- **Reasoning** Students will make decisions based on the information given.
- **Connections** Students will connect mathematics to map skills, manage money and time, and use Social Studies terms.
- **Estimation** Students will apply estimation strategies to check the reasonableness of their results.
- **Measurement** Students will demonstrate and apply concepts of standard measurement to estimate, verify and solve a problem in a real life situation.
- **Number Sense & Numeration** Students will demonstrate a knowledge of place value while keeping records of money and time.
- **Whole Number Computation** Students will demonstrate the knowledge of addition, subtraction, multiplication, and division of whole numbers.
- **Statistics** Students will collect, organize and interpret data from a table, a daily log, and a map
- **Decimals** Students will demonstrate the ability to add, subtract, and multiply, using money.
- **Concepts of Social Studies** Students will show competency in reading and interpreting maps, scales, a compass rose, and key.

**Brief Overview:**

This is an interdisciplinary mathematics/social studies unit. Students will be given a collection of information including a map of a specific geographic region, a specified amount of money and time, and costs of food and lodging. In cooperative groups, students will use this information to plan a trip for a family of four.

**Grade/Level:**

Grades 3-4

**Duration/Length:**

This unit should take 4-6 class periods. Task 1 may take longer than the others.

**Prerequisite Knowledge:**

Students need a basic understanding of:

- road maps
- decimals to hundredths
- time
- measurement
- addition, subtraction, multiplication and division
- money

**Objectives:**

Students will:

- add, subtract and multiply quantities of money.
- calculate distance on a map.
- keep accurate records.
- show competence in the use of a calculator.
- demonstrate knowledge of Social Studies/map terms and symbols.
- correctly keep a running balance on a spending account.
- calculate elapsed time.
- read and interpret a map.
- write a paragraph to describe the trip.

**Materials/Resources/Printed Materials:**

- ☐ Maps of Delmarva
- ☐ Ruler
- ☐ Cost of lodging and food (worksheet)
- ☐ Calculator
- ☐ List of area attractions and their costs (worksheet)
- ☐ Daily log (worksheet)
- ☐ Pencil
- ☐ Highlighter
- ☐ Miles traveled log

**Development/Procedures:****Task 1:**

- Students will be given a map of Delmarva (map worksheet), a list of lodging, restaurant, and attraction choices in each state of Delmarva. The list will include their respective costs. In addition they will get a daily log on which to keep records of money spent (see worksheets 3& 4).
- In cooperative groups of three or four, students will plan a three day trip through Delmarva for a family of four. They must visit all three states and at least five attractions. They will be given a budget of \$400.00.

**Task 2:**

- Students will be given a map of Delmarva on which to highlight their route (see map worksheet).

**Task 3:**

- Students will calculate the miles they travel on their trip.

**Task 4:**

- Students will write a paragraph, using chronological order and directional terms, to describe their trip.

**Evaluation:**

Students will be assessed using a point evaluation system based on daily activities, miles traveled logs, and their paragraphs from Task 4 (worksheet).

**Extension/Follow Up:**

Students will:

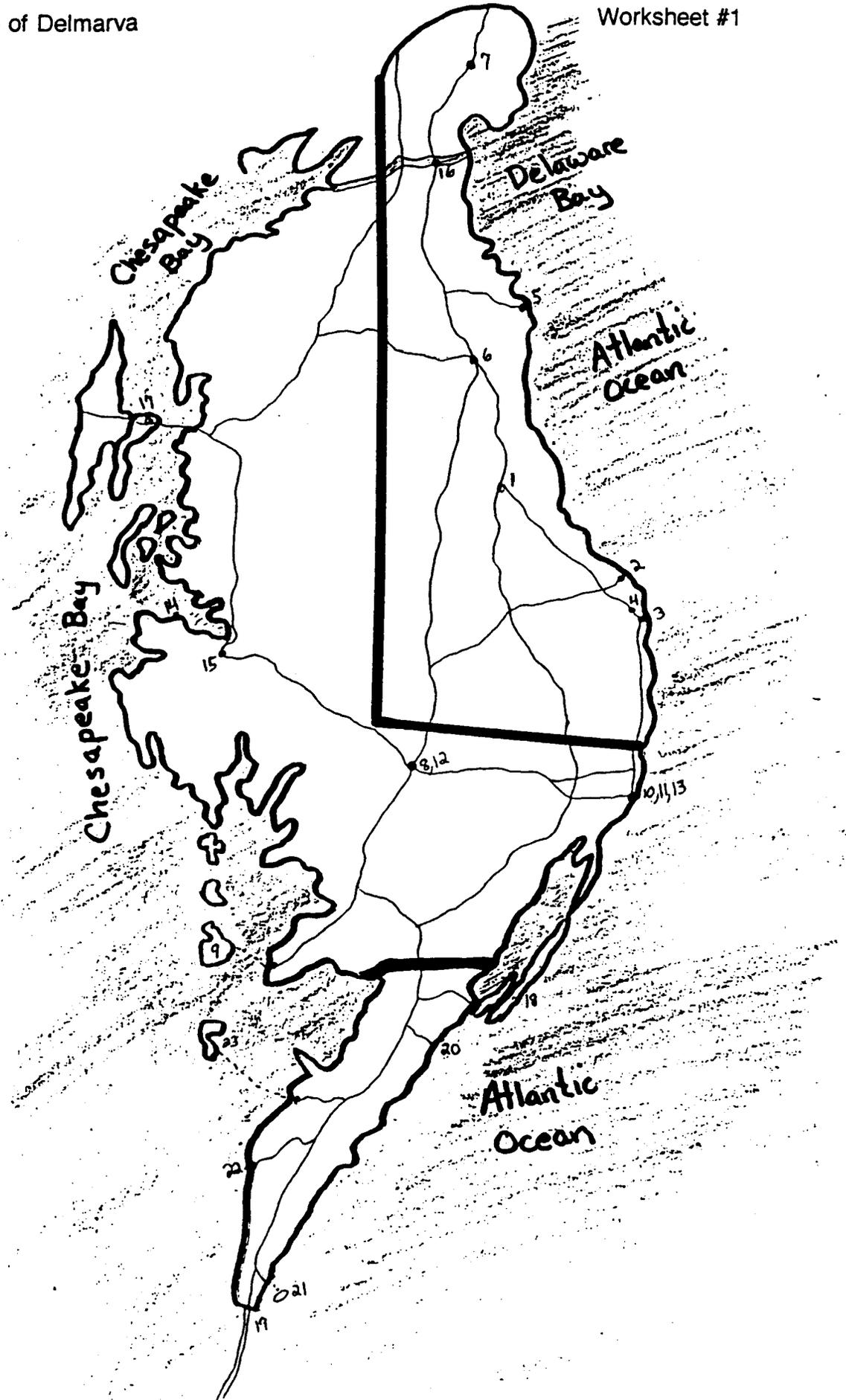
- make brochure of the places they visited.
- create, exchange, and solve word problems based on their experiences.
- plan a field trip to one of the areas studied.
- write a letter to a pen pal to persuade him/her to visit our area.
- compute the amount of fuel the trip will take.

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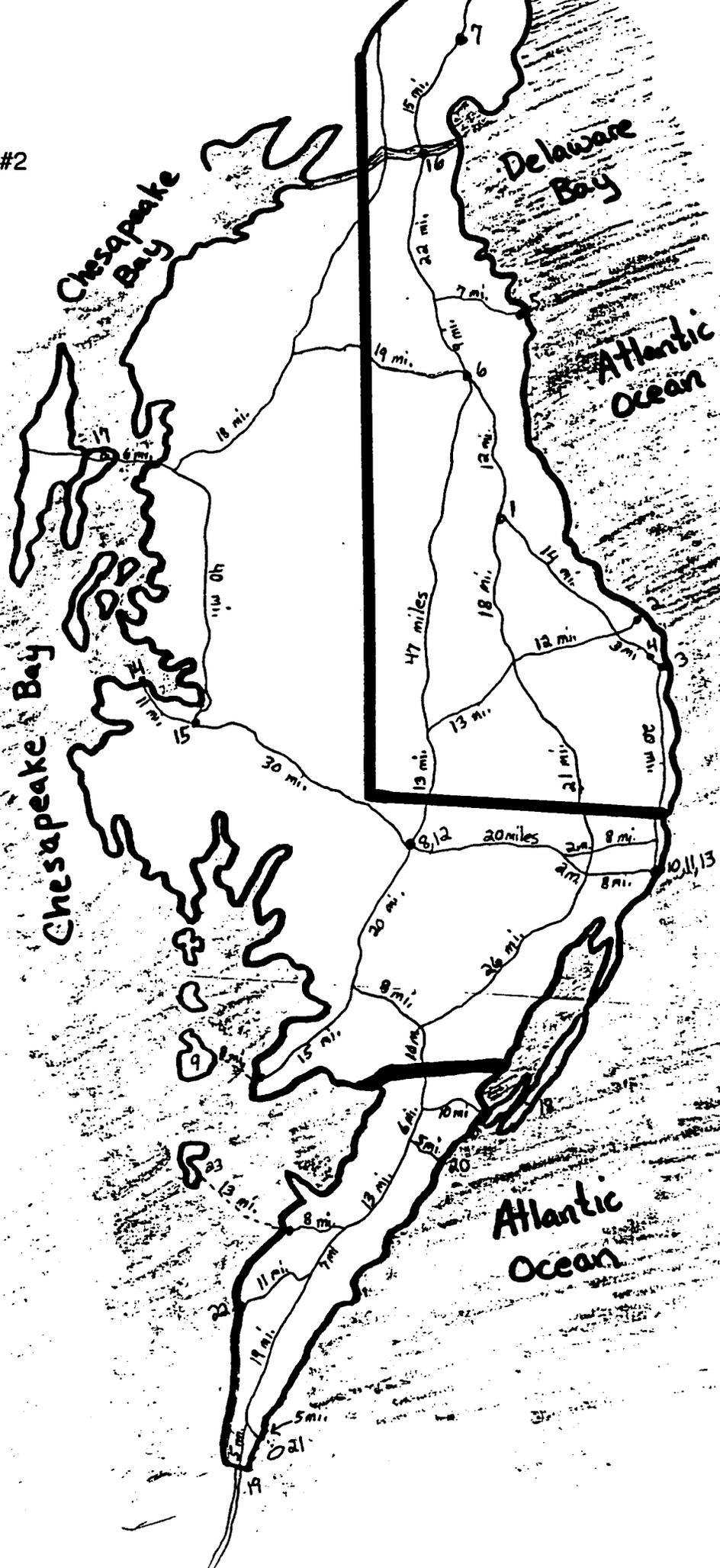
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Delmarva

Worksheet #2



## Worksheet #3

This is your list of attractions, hotels and restaurants and their costs. Your trip will last 3 days and 2 nights. You will need to visit all three states and at least five attractions, one from each state. Your journey begins in Salisbury, Maryland.

### **Attractions**

#### **Delaware**

1. Milford Indian Village - \$5.00 per person
2. Cape May-Lewes Ferry - \$4.50 per person + \$10.00 per car
3. Rehoboth Beach - Free
4. Cape Henlopen State Park - \$2.00 per person
5. Bombay Hook National Wildlife Refuge - Free
6. Dover Air Force Base - \$1.00 per person
7. Winterthur Gardens - \$2.50 per person

#### **Maryland**

8. Ward Museum - \$3.00 per person
9. Smith Island Boat Tour - \$5.00 per person
10. Jolly Roger Amusement Park - \$12.00 per person
11. Mini Golf - \$4.95 per person
12. Salisbury Zoo - Free
13. Ocean City Beach - Free
14. Horn Point - \$1.00 per person
15. Harriet Tubman Museum - \$2.50 per person
16. C & D Canal (historical museum)- \$1.00 per person
17. Kent Narrows Outlets - Free (You may shop if you like, but be sure to subtract your cost of each purchase from your total.)

#### **Virginia**

18. Chincoteague Island Wild Ponies - Free
19. Chesapeake Bay Bridge Tunnel - \$10.00 per car
20. NASA Flight Center - Free
21. Cape Charles Lighthouse - \$2.25 per person
22. Silver Beach - Free
23. Tangier Island Boat Cruise - \$7.50 per person

**Lodging**

Fancy - *\$50.00 per room each night*  
Average - *\$30.00 per room each night*  
Camping - *\$15.00 per night*

**Food (for a family of 4)**

|                      | Breakfast      | Lunch          | Dinner         |
|----------------------|----------------|----------------|----------------|
| nice restaurant      | <i>\$20.00</i> | <i>\$35.00</i> | <i>\$50.00</i> |
| fast food restaurant | <i>\$12.50</i> | <i>\$18.25</i> | <i>\$23.55</i> |
| picnic               | <i>\$5.00</i>  | <i>\$10.45</i> | <i>\$15.85</i> |





### Paragraph Evaluation

| <u>Content</u>                         | <u>Points</u> |
|--|---------------|
| Visited all three states               | _____/3       |
| Participated in five activities        | _____/3       |
| Used correct directional terms         | _____/3       |
| Computed mileage correctly             | _____/3       |
| Written directions followed trip taken | _____/3       |
|  | _____/15      |

| <u>Mechanics</u>         | <u>Points</u> |
|--------------------------|---------------|
| Indented paragraph       | _____/1       |
| Used correct spelling    | _____/2       |
| Used correct punctuation | _____/2       |
| Used complete sentences  | _____/3       |
| Sentences made sense     | _____/3       |
| Was neat                 | _____/1       |
|                          | _____/12      |

### Math Log Evaluation

|  |          |
|--|----------|
| Entries accurately entered               | _____/1  |
| Includes all entries                     | _____/1  |
| Expenses computed correctly for 4 people | _____/3  |
| Balance computed correctly               | _____/5  |
|  | _____/10 |

### Miles Traveled Log Evaluation

|                         |         |
|-------------------------|---------|
| Accurate log entries    | _____/1 |
| No missing entries      | _____/1 |
| Correct mileage figures | _____/1 |