

Name \_\_\_\_\_

## Restaurant Receipts

The following four cards serve as a group that can be used collectively to answer the question.

Alice's Diner sells only four items, which have individual prices of \$2, \$3, \$4, or \$5.

<i>Alice's Diner</i>		
CUSTOMER RECEIPT		
Qty	Item	
2	<i>Super Sodas</i>	
3	<i>Big Burgers</i>	
TOTAL:		\$18
THANK YOU!!		

After dining there, Group A got this receipt. What is the cost of each individual item?

Alice's Diner sells only four items, which have individual prices of \$2, \$3, \$4, or \$5.

<i>Alice's Diner</i>		
CUSTOMER RECEIPT		
Qty	Item	
5	<i>Super Sodas</i>	
6	<i>Big Burgers</i>	
TOTAL:		\$39
THANK YOU!!		

After dining there, Group C got this receipt. What is the cost of each individual item?

Alice's Diner sells only four items, which have individual prices of \$2, \$3, \$4, or \$5.

<i>Alice's Diner</i>		
CUSTOMER RECEIPT		
Qty	Item	
2	<i>Big Burgers</i>	
2	<i>Fast Fries</i>	
2	<i>Super Sodas</i>	
TOTAL:		\$18
THANK YOU!!		

After dining there, Group B got this receipt. What is the cost of each individual item?

Alice's Diner sells only four items, which have individual prices of \$2, \$3, \$4, or \$5.

<i>Alice's Diner</i>		
CUSTOMER RECEIPT		
Qty	Item	
2	<i>Monster Nachos</i>	
3	<i>Big Burgers</i>	
2	<i>Fast Fries</i>	
4	<i>Super Sodas</i>	
TOTAL:		\$38
THANK YOU!!		

After dining there, Group D got this receipt. What is the cost of each individual item?

Fill in or complete the information on this page as you work through the problem.

- What information is found on each receipt?

Receipt A	Receipt C
Receipt B	Receipt D

- What prices are possible for each item?

List possible item prices	Check—Do the prices work?

- What prices can be eliminated for certain items?

Write the names of the items  
in the first column.

Write the possible costs for each item in the top row.


Eliminate  
possibilities by  
placing X's in the  
appropriate boxes.