

A TRIP TO THE ZOO

Anna and her family go to the zoo. The zoo ticket prices, snack shop menu, and gift store prices are shown in the tables.




Zoo Ticket Prices

Type of Ticket	Price
Adult (ages 12-64)	\$16
Senior (ages 65+)	\$13
Child (ages 2-11)	\$11
Under 2	Free

Snack Shop Menu

Food	Price
Hamburger	\$5
Cheeseburger	\$6
Salad	\$3
Pizza	\$3
Drinks	Price
Water	\$1
Milk	\$2
Juice	\$3
Soda	\$3

Gift Store Prices

Gift	Price
 Stuffed panda bear	\$ 9
 Zoo magnet	\$4
 Pack of 4 pens	\$6
 Photo frame	\$8

Anna's Family

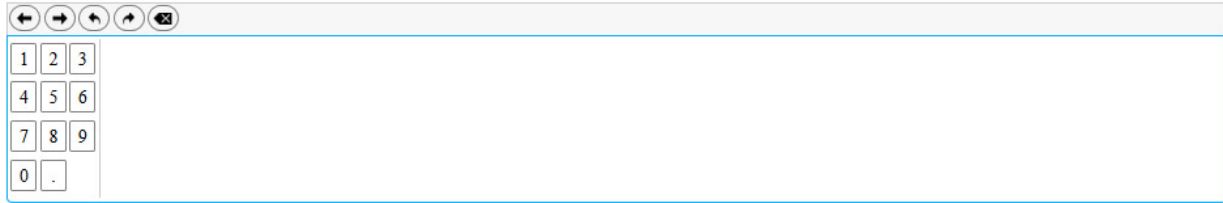
- Betsy is an adult (ages 12–64)
- Grandma is a senior (ages 65 and up)
- Ray is a child (ages 2–11)
- Anna is a child (ages 2–11)

The family has \$100 to spend at the zoo.

1.

Use the **Zoo Ticket Prices** table and **Anna's Family** list to answer the question.

What is the total cost, in dollars, of zoo tickets for Anna's family?



Scoring

For this item, a full-credit response (1 point) includes

- 51.00

For this item, a no-credit response (0 points) includes none of the features of a full-credit response.

2.

Part A

Use the **Snack Shop Menu** and **Anna's Family** list to answer the question.

Each person in Anna's family will buy one food item and one drink. Choose one food and one drink item for each person.

Enter the name for the food and drink choices for each member of the family and the total cost of the food and drink for each person.

	Food Choice	Drink Choice	Total Food and Drink Cost for Each Person
Betsy	<input type="text"/>	<input type="text"/>	<input type="text"/>
Grandma	<input type="text"/>	<input type="text"/>	<input type="text"/>
Ray	<input type="text"/>	<input type="text"/>	<input type="text"/>
Anna	<input type="text"/>	<input type="text"/>	<input type="text"/>

Scoring

For this item, a full-credit response (1 point) includes:

	Food Choice	Drink Choice	Total Food and Drink Cost for Each Person
Betsy	Hamburger	Juice	8
Grandma	Pizza	Soda	6
Ray	Salad	Soda	6
Anna	Pizza	Water	4

- OR
- any four partial sums that are correct based on the food and drink choices in the table.

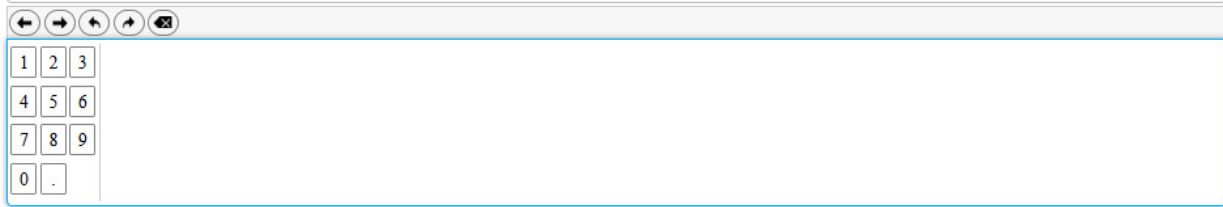
For this item, a no-credit response (0 points) includes none of the features of a full-credit response.

3.

Part B

Use the **Snack Shop Menu** and **Anna's Family** list to answer the question.

Based on your response in Part A, what is the total cost, in dollars, of the food and drinks for Anna's family?

A digital calculator interface. At the top, there is a long horizontal input field. Below it is a row of five navigation buttons: a left arrow, a right arrow, a double left arrow, a double right arrow, and a square button with an 'X' (clear). Below the navigation buttons is a numeric keypad with buttons for digits 1-9, 0, and a decimal point (.).

Scoring

For this item, a full-credit response includes (1 point) includes:

- 24
- OR
- any total sum that is correct based on the student's response to item.

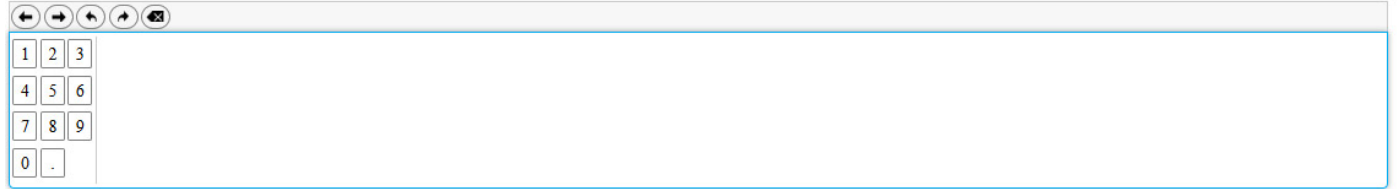
For this item, a no-credit response (0 points) includes none of the features of a full-credit response.

4.

Grandma says they will spend the remaining money at the gift store.

Part A

How much money, in dollars, is remaining after the family buys zoo tickets, food, and drinks? (Remember they started with \$100.)



Scoring

For this item, a full-credit response includes (1 point) includes:

- 25
- OR
- any difference that is correct based on the student's responses to items.

For this item, a no-credit response (0 points) includes none of the features of a full-credit response.

5.

Use the **Gift Store Prices** table to answer the question.

Part B

Anna and Ray go into the gift store. Grandma says there are 2 rules for choosing what to buy:

- Do not buy more than one of any gift.
- You must buy at least two gifts.

In your answer, you must have the following:

- Tell which gifts Anna and Ray can buy.
- Explain why there is enough money for the gifts you choose.

Scoring

For this item, a full-credit response (2 points) includes:

- stating correct gifts that Anna and Ray can buy based on the student’s response to item and the restrictions in the stem
- AND
- explaining why there is enough money for the gifts based on the student’s response to item.

For example,

- “Anna and Ray can buy a zoo magnet and a photo frame. There is enough money for these gifts because they cost 10 dollars total and there is 25 dollars left to buy gifts. 10 dollars is less than 25 dollars.”

For this item, a partial-credit response (1 point) includes:

- stating correct gifts that Anna and Ray can buy based on student’s response to item and the restrictions in the stem.

For example,

- “They can buy a stuffed panda bear and a zoo magnet.”

OR

- “Anna and Ray can buy a pack of 4 pens and a photo frame that cost 14 dollars total.”

For this item, a no-credit response (0 points) includes none of the features of a full- or partial-credit response.

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For example,

- “They can buy 4 stuffed panda bears.”

OR

- “Anna and Ray can buy 2 stuffed panda bears and 2 photo frames.”