

When Nuri buys an item from a catalog, the total amount he pays is made up of the following three amounts of money:

- the price of the item
- sales tax of 5% of the price of the item
- a fixed shipping fee that is always the same regardless of the cost or size of the order

Nuri bought a game with a price of \$100 from the catalog.

- What was the sales tax, in dollars, that Nuri paid on the game? Show or explain how you got your answer.
- The total amount, including the sales tax and the shipping fee, that Nuri paid for the game was \$120. What was the shipping fee, in dollars? Show or explain how you got your answer.
- Nuri bought an item with a price of \$400 from the catalog. What is the total amount he paid, in dollars, including the sales tax and the shipping fee? Show or explain how you got your answer.
- Write an equation that expresses the relationship between y , the total amount paid for an item from the catalog including the sales tax and shipping fee, and x , the price of the item. Show or explain how you got your equation.