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1. Andrea rents a bike for a day. The rental charges can be determined by the equation $y=0.5 x$, where $y$ is the rental charges and x is the number of days she rents the bike.
a. What is the constant of proportionality?
b. If Andrea rents a bike for 5 days how much will it cost?

2. Brittany goes to the bakery. The cost of the donuts can be determined by the equation $y=1.25 x$, where $y$ is the total donut cost and x is the number of donuts she buys.
a. What is the constant of proportionality?
b. What does the constant of proportionality represent in this situation?
c. If Brittany buys a dozen donuts how much will it cost her?
3. Greg needs to find the area of his rectangular garden. The area can be determined by the equation $\mathrm{A}=51$, where A is the area and $I$ is the length of the rectangle.
a. What is the constant of proportionality?
b. What does the constant of proportionality represent in this situation?
c. What is the area of the garden with a length of 8 ?
4. In Greg's garden he plants flowers. The number of flowers in the garden can be determined by the equation $F=2 b$, where $F$ is the number of flowers $a n d b$ is the number of bulbs Fred has planted.
a. What is the constant of proportionality?
b. How many flowers are in Greg's garden if he plants 16 bulbs?
5. Daisy owns a chocolate shop. The number of chocolates sold can be determined by the equation $y=.63 x$, where $y$ is the total price and x is the number of chocolates.
a. What is the constant of proportionality?
b. What does the constant of proportionality mean in this situation?
c. Daisy buys 25 chocolates, how much did she pay?
6. A bowl of Fruit Loops contains 110 calories per serving. Write an equation that represents the number of calories $y$ in x servings of fruit loops.
7. At a pizza place 5 pizzas cost you $\$ 60$.
a. Write an equation to represent the total cost $y$ of buying $x$ pizzas.
b. How much will 9 pizzas cost you?

8. At the grocery store 6 stuffed peppers cost $\$ 36$.
a. Write an equation to represent the total cost $y$ of buying $x$ stuffed peppers.
b. How much will 12 stuffed peppers cost?
9. Mrs. Afoa needs to buy some candy bars for her class. At the nearest store, 3 boxes of candy bars cost $\$ 15.75$. How much would Mrs. Afoa spend on 5 boxes of candy bars?
10. You bike 11.2 miles in 1.4 hours at a steady rate. Write an equation that represents the proportional relationship between the $x$ hours you bike and the distance $y$ in miles that you travel.
11. A pet store sells cans of dog food. Use the table to write an equation you can use to find the cost $y$ in dollars for $x$ cans of dog food.

| Number of cans (x) | Cost in Dollars (y) |
| :---: | :---: |
| 7 | 8.05 |
| 9 | 10.35 |
| 13 | 14.95 |
| 17 | 19.55 |

12. Ms. Tomeo uses the equation $\mathrm{y}=6.25 \mathrm{x}$ to calculate the total cost y in dollars for x pack of markers.
a. How much does one pack of markers cost?
b. How much would Ms. Tomeo spend on 5 pack of markers?

