**INDEPENDENT PROBLEM SOLVING**

1. The Pizza Shoppe had a one-day discount on large three-topping pizzas. The table shows the various amounts paid for the pizzas.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Number of Pizzas (n) | 2 | 3 | 4 | 5 |
| Total Cost  (c) | $13 | $19.50 | $26 | $39 |

1. What is the constant of proportionality (cost per pizza)?
2. How much would 8 pizzas cost?
3. If n represents the number of pizzas bought, what can we multiply it by to find the total cost?
4. Complete the equation finding the total price, t, when purchasing *n* pizzas.
5. Describe the equation above in words. Use the term “constant of proportionality” in your description.

2) The graph shows the cost of apples at a fruit vendor.

1. What is the constant of proportionality (cost per apple)?
2. How much would 9 apples cost?
3. If n represents the number of apples purchased, what can we multiply it by to find the total cost?
4. Complete the equation finding the total price, t, when purchasing *n* apples.
5. Describe the equation above in words. Use the term “constant of proportionality” in your description.