12. [8 points] In preparation for an upcoming party, you are deciding where to buy a large supply of candy. You have investigated two sources. Define function $C$ and $T$ as follows.

- It costs $C(p)$ dollars to buy $p$ pounds of candy from the Candy Company.
- For $d$ dollars, you can buy $T(d)$ pounds of candy from Tasty Sweets.
a. [1 point] Write an equation that expresses the fact that it costs $\$ 25$ to buy 10 pounds of candy from Tasty Sweets.


## Answer:

$\qquad$
b. [1 point] Write an expression that gives the cost of purchasing $k$ pounds of candy from Tasty Sweets.

## Answer:

$\qquad$
c. [2 points] Write an equation that expresses the fact that it costs $\$ 10$ more to buy 20 pounds of candy from the Candy Company than to buy 15 pounds of candy from the Candy Company.

Answer: $\qquad$
d. [2 points] The Candy Company claims that purchasing twice as much candy always costs less than twice as much. Express this statement as an inequality involving $C$ and $p$.

Answer: $\qquad$
e. [2 points] Interpret the meaning of the equation $T(C(15))=20$ in the context of this problem. (Use a complete sentence.)
13. [5 points] (Your score on this problem was determined when you took the LA Post-Test.)

