

Custom T - Shirts



Last summer you were hired to work at Custom T-Shirts, the company that prints the t-shirts for all of the neighborhood sports teams. When a customer orders shirts with their own design printed on them, Custom T-Shirts charges them a one-time fee of \$15 to make the design plus \$8 for each t-shirt printed.

1. Your first responsibility at Custom T-Shirts is to make a table and a graph that show how much a customer will be charged for various numbers of shirts. Include the cost of up to 100 shirts.
2. How much should Custom T-Shirts charge a customer for 150 shirts? How much should they charge for 750 shirts? Explain how you determined your answers.
3. If you have not done so already, write an equation that could be used to determine how much to charge a customer for any number of shirts.
4. What is the largest number of custom t-shirts that a customer can buy for \$100? Explain how you figured this out.

Homework:

- Fancy T-Shirts charges a one-time fee of \$18 to make the design plus \$5 for each t-shirt printed. How will their prices compare to the Custom T-Shirt prices? Explain.

Task: "Custom T-Shirts"

Source: Adapted from "1.8 – U.S. Shirts: Using Tables, Graphs, and Equations, Part 1," Cognitive Tutor Algebra 1, p. 37.