

Modeling Linear Equations and Inequalities

A charity fundraiser raised \$1200 by selling t-shirts at \$10 each and bookbags for \$25 each.

- 1) Write a linear equation that represents this.

- 2) Graph the function. (Let y = t-shirts, x = bookbags; solve for y using increments of 20)

- 3) Based on the graph, if the charity sold 10 bookbags, how many t-shirts did it sell?

- 4) If 100 t-shirts were sold, how many bookbags were sold?

- 5) What are the units of each of the coefficients in part a?