

Printing Tickets

Susie is organizing the printing of tickets for a show.

She has collected prices from several printers and these two seem to be the best.

SURE PRINT
 Ticket printing
 25 tickets for \$2

BEST PRINT
 Tickets printed
 \$10 setting up
 plus
 \$1 for 25 tickets

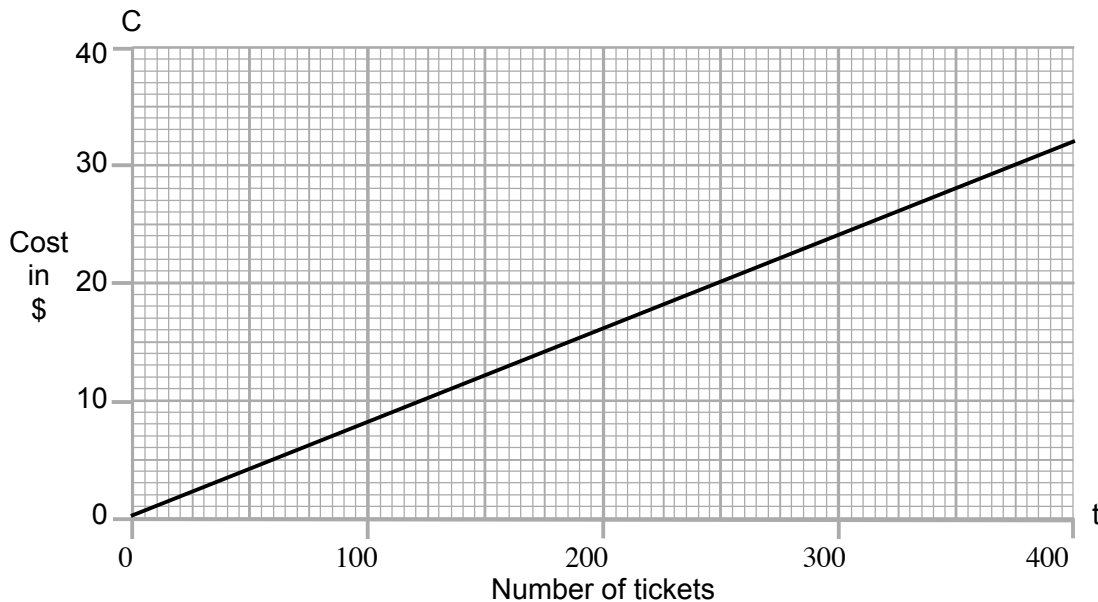
1. Using C for the cost of the printing and t for the number of tickets, Susie writes a formula for each of the printers. Here is her formula for *Sure Print*:

Sure Print $C = \frac{2t}{25}$

Write the formula for Best Print:

Best Print $C =$

2. Susie’s brother Rob has drawn *Sure Print*’s graph on a grid.
 Draw the graph for *Best Print*.



3. Susie uses algebra to find the values of C and t when the cost of printing the tickets is the same for both of the printers.

$$C = \underline{\hspace{2cm}} \quad t = \underline{\hspace{2cm}}$$

Show how Susie may have calculated C and t .

4. What do Rob's graphs and Susie's calculations tell us about the cost of the tickets?
Which company should Susie choose under what circumstances?
