

Luck of the Draw

You need a calculator (optional)

Activity

These people are selling raffle tickets at the gala.

<p>Craig</p> <p>Win \$30!</p> <p>Three tickets for \$2 or one for \$1</p> <p>80 tickets are for sale.</p>	<p>Kirk</p> <p>Win \$20!</p> <p>\$1 a ticket</p> <p>There are 60 tickets for sale.</p>	<p>Jay</p> <p>Win a \$50 book voucher!</p> <p>\$2 a ticket or three for \$5</p> <p>75 tickets are for sale.</p>	<p>Adele</p> <p>Win a \$25 box of chocolates!</p> <p>Five tickets for \$2</p> <p>There are 100 tickets for sale.</p>
<p>(Profit is the money taken minus the costs.)</p>			

All the tickets are sold.

1. What profit did Kirk and Adele make altogether?
2. Craig sold three tickets for \$2 to 15 people. He sold the rest of his tickets for \$1 each.
 - a. How many tickets did he sell at \$1 each?
 - b. How much money did his raffle make?
3. Susie wanted to win the chocolates.
 - a. How many tickets would she have to buy to have a $\frac{1}{2}$ chance of winning?
 - b. How much would the tickets cost?
4.
 - a. Jay sold three tickets for \$5 to 21 people. She sold the rest of her tickets for \$2 each. What profit did her raffle make?
 - b. If the Te Rata Bookshop donated the prize for Jay's raffle, how much profit would the raffle have made?

