

## Laser Tag Problem

You are having a birthday. You have decided to take your friends to a laser tag site. You have 2 choices. The Super Laser company offers \$1.50 per game and a \$3.00 fee for the use of equipment.

Another company, Lasers R Us, offers a rate of \$2.00 per game. There is no rental fee for Lasers R Us. Each game takes approximately 15 minutes.

Which one will you choose?

- Create algebraic equations to model the cost for each company.
- Create a chart for the first 2 hours for both offers.
- Identify the constants and variables in the expressions.
- Plot both sets of data on line graph. Use a different colour for each line. Where do they intersect (cross)? Explain what the graph shows.
- Which offer is better? What assumptions have you made?
- Consider playing 20 games at Super Laser. How much would it cost? Explain your reasoning.

