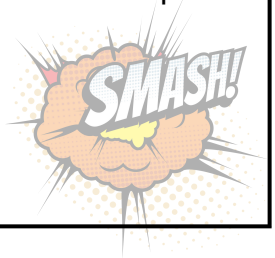
Sunridge Secondary School's Superhero Sprint

Each year, the Grade 8 students at Sunridge Secondary School organize a fun-run fundraiser for a local summer camp for children with chronic illnesses. Typically, approximately 60 students participate in the run.

Your task has two parts:

Determine the route and the number of volunteers required along the run	**Establish the minimum amount that must be fundraised for a student to participate.**
• The route must be a loop between 2 km and 3 km long; • It must start and end at the same spot; • If the runners must *cross* the street, an adult volunteer must be assigned to the intersection; and • If runners turn a corner but do not cross, a student volunteer must be assigned there. **A map is included inside your assessment booklet.**	• The run is almost entirely paid for by sponsorships and donations; • The money raised by participants has to cover the cost of t-shirts for all volunteers; • Each t-shirt costs $8; and • All money leftover is given to the camp. 

- **What you need to include in your solution:**
- A sketch of the fun-run route, using arrows to show direction;
- The calculation of the approximate distance;
- The placement of each volunteer;
- The total number of adult and student volunteers required along the route;
- The calculations to find the total cost of all the t-shirts;
- Your decision about the minimum amount of money someone needs to fundraise to participate; and
- A brief (4-6 sentence) explanation of how you determined this minimum amount and why you think it is reasonable.