1 Introduction

Below are the answers to the handout. Please feel free to ask questions if anything is confusing.

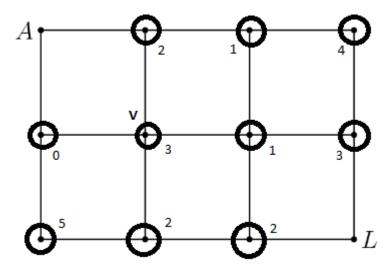
2 Warm-up: Numbers in Trick-or-Treating

- 1. (a) 30
 - (b) 30
 - (c) 30
- 2. You can ignore this problem due to the confusing wording.

3 Candy Piles

- 1. 5
- 2. 18
- 3. 106
- 4. 314

4 Trick-or-Treat Routing



- 1. In our first scenario, you are in a rush to get home! What is the least amount of roads you have to walk on to get home?
 - (a) Any path using only downward and rightward movement.
 - (b) 10
 - (c) 10
 - (d) 4
- 2. You are no longer in a rush. There are 17 roads, and you can not take any road twice (you can visit houses twice though.)
 - (a) 13
 - (b) 4

5 Halloween Brain Teasers

1. 13



- 2. pumpkin + ghost + (2 bats) = 14
- 3. $\frac{5}{18}$
- 4. $\frac{2}{206.5}$

6 More Spooky Season Problems



- 1. 9 items in total
- 2. 30 candies
- 3. The shorter side is 94 yards, and the longer side is 188 yards.
- 4. 390 candies

Challenge: 368 candies

Super Challenge: 3,510 candies