## 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

