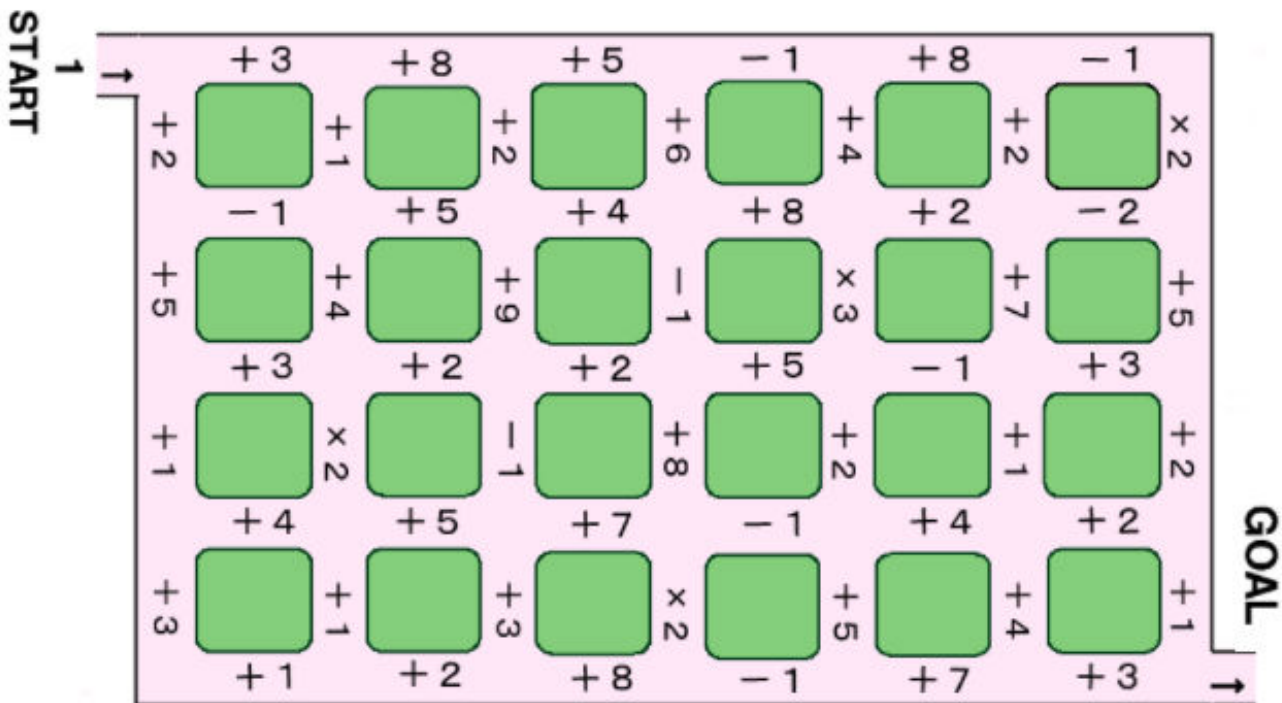# Mathletes Problem of the Week #1

Minimaze / Maximaze

To travel through the maze of operations below, begin at START with a score of 1. As you move toward GOAL, calculate your new score at each step. You may cross over your own path, but you cannot take the same path twice or return along a path you've already taken.

a) Find a path through the grid that will result in the lowest possible score.

b) Grab another copy of this sheet and find a new path through the maze that will maximize your score. What is the highest score you can make?

START → 1

Row operations (top): +3 +8 +5 −1 +8 −1

Vertical (row 1): +2 +1 +2 +6 +4 +2 ×2

Between rows 1–2: −1 +5 +4 +8 +2 −2

Vertical (row 2): +5 +4 +9 −1 ×3 +7 +5

Between rows 2–3: +3 +2 +2 +5 −1 +3

Vertical (row 3): +1 ×2 −1 +8 +2 +1 +2

Between rows 3–4: +4 +5 +7 −1 +4 +2

Vertical (row 4): +3 +1 +3 ×2 +5 +4 +1

Bottom row: +1 +2 +8 −1 +7 +3

GOAL →

Solutions & Explanations: (Record your final score here and write whether this is your minimum or maximum score. Use the back to explain why you think you have the lowest or highest score.)

Name _____   Class _____

(First and last name, please!)   Solutions due: September 21st