

## Supplemental Activity B

# The Smiley Face Game

### Instructions

This is the puzzle of all puzzles! Each puzzle has a unique pattern. The smiley face represents an instruction or a group of instructions that take the two numbers to the left of the equal sign and create the output on the right side of the equation. Your goal is to find the pattern and identify what the smiley face does in each puzzle.

#### PUZZLE 1

- 5 😊 1 = 56  
3 😊 8 = 2411  
4 😊 2 = 86  
7 😊 5 = 3512  
2 😊 8 = 1610

#### PUZZLE 2

- 3 😊 9 = 3192  
8 😊 4 = 8142  
1 😊 2 = 1122

#### PUZZLE 3

- 7 😊 2 = 22722  
8 😊 5 = 55855  
9 😊 6 = 66966

#### PUZZLE 4

- 34 😬 27 = 111  
74 😬 53 = 27  
88 😬 44 = 412  
91 😬 63 = 34

#### PUZZLE 5

- 3 😬 9 = 9123  
7 😬 4 = 4117  
8 😬 9 = 9178  
2 😬 7 = 792

#### PUZZLE 6

- 6 😬 5 = 11.30  
8 😬 4 = 12.32  
2 😬 12 = 14.24