Is the shortcut actually shorter? Day 2

OVER → Home

UP
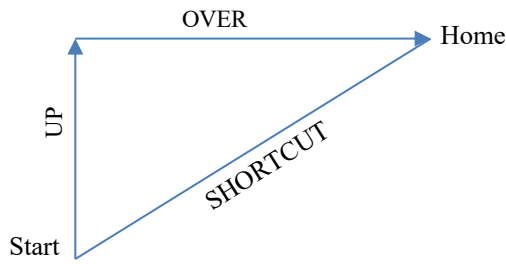
SHORTCUT

Start

Reese and her dad are on a very long walk. Her dad says they should go up 3 miles and over 4 miles. Reese says they should take a "shortcut" to get home faster. Today we discover a pattern that will help us find the distance of the shortcut.

1. Use spaghetti pieces to find the distance of the shortcut for a walk on each day.

	UP	OVER	SHORTCUT
Day 1	3	4	
Day 2	6	8	
Day 3	5	12	

2. Now take each number in the table above and multiply it by itself.

	UP x UP	OVER x OVER	SHORTCUT x SHORTCUT
Day 1			
Day 2			
Day 3			

3. What pattern do you notice with the numbers in this table?

4. Describe the pattern in words.

5. Write an equation that goes with the pattern.