Circle Pattern	Rubric	
	Points	Section points
1. Gives correct explanation such as: Let radius white circle be r, then area = πr^2 Radius black circle is 2r, then area = 4 πr^2 Area of two white circles is 2 πr^2 *Partial credit* May use numbers rather than variables	2 (1)	2
2. Gives correct answer: **3/4**	2	2
3. Gives correct answers: **3/4, 1/4, 5/8, 3/8, 11/16, 5/16** *Partial credit* 4 correct two points 3 correct two points 2 correct one point	4 (3) (2) (1)	4
4. Gives correct explanation such as: Each time a half of the previous fraction is added or subtracted from the black fraction. (The limit of the black fraction is 2/3.) *Partial credit* For a partially correct explanation that either addresses change by half or the oscillating adding or subtracting.	2 (1)	2
Total Points		**10**