The Frog Pond

Guided Investigation (1)

Game Information			
There are 6 frogs in the pond	The dice is labelled:		
	1 in	2 in	3 in
	1 out	2 out	3 out

- Is it possible to empty the pond in …

1 roll of the dice?	
2 rolls of the dice?	
3 rolls of the dice?	
4 rolls of the dice?	
5 rolls of the dice?	
6 rolls of the dice?	

- What is the least number of rolls needed to empty the pond?

- What is the least number of rolls needed to empty the pond if there were 7 frogs in the pond?

- What is the least number of rolls needed to empty the pond if there were 8 frogs in the pond?

- What is the least number of rolls needed to empty the pond if there were 9 frogs in the pond?

- Can you find a pattern?