

# Coloring Remainders Exploration Questions

Pascal's Triangle is very interesting from a number pattern point of view. We've already seen the interesting 2-color patterns from [coloring multiples](#) of numbers. Now we are going to look at remainders.

- Find the quotients and remainders when each number in row 4 of [Pascal's triangle](#) is divided by 2, 3, 4, 5, 6, and 7, filling in the table below:

	1		4		6		4		1	
	Q	R	Q	R	Q	R	Q	R	Q	R
÷ 2										
÷ 3										
÷ 4										
÷ 5										
÷ 6										
÷ 7										

What happens when we divide by numbers larger than the largest number in the row in general?

- Now try coloring [Pascal's Triangle](#) on paper, using 3 as the divisor. Color all remainders 0 one color, remainders 1 another color, and remainders 2 a third color.

