Question Starter Card- See *Every Day Counts®,* 2005 edition, p 28-31, for questions to add to card.

Probability Graph - September

What do you notice when you look at the *number* of green squares and purple rectangles on our Calendar so far on the 15th (or on any date that is a purple multiple of 3)? (There are twice as many greens as purples; two thirds are green and one third are purple.)

We're putting 3 pieces that match the green, green, purple pattern into this bag. Is it equally likely or more likely that we will draw a green?

Each time we draw a piece, what is the probability (or what are the chances) of getting a green? (2 out of 3; 2\3) A purple? (1 out of 3; 1\3)

If we draw and put back one piece, shake the bag, and do this a total of 15 times, *about* how many times do you think a purple piece will be drawn?

How many pieces have been drawn so far? Let's look at our graph of green and purple draws? Are the results close to what we expected? Explain.

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