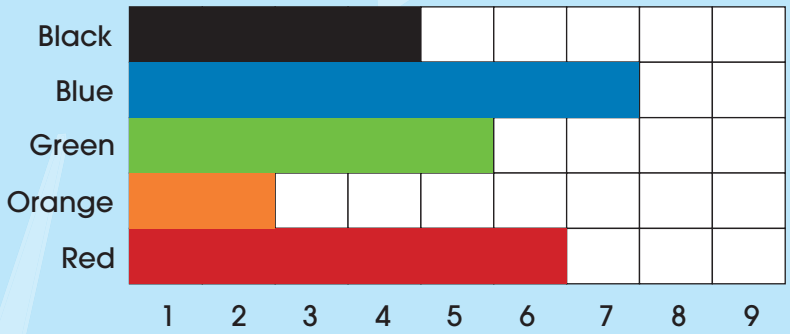
Survey

The chart below shows the favorite colors of the students in Mrs. Thurston's class.

Favorite Colors of Mrs. Thurston's Class



i) How many students were surveyed for this graph? _____

ii) What color was the most popular favorite color? _____

iii) What color was the least popular favorite color? _____

iv) How many more students chose blue than black? _____

v) How many more students chose green than orange? _____

vi) How many total students chose green and black? _____

vii) What fraction of students chose black? _____

viii) What fraction of students chose red? _____

ix) What is the ratio of students who chose orange to students who chose green? _____

x) What is the ratio of students who chose blue to students who chose red? _____

xi) A total of eight students chose which two colors as their favorites? _____

xii) Two fewer students chose what color than black? _____

Reflection

Conduct the same survey in your class. Complete the questions above using your own survey results.

Flipping a Coin

The chart below shows ten coin flips done by Shauna during class.

Flip Number	Head/Tails	Flip Number	Heads/Tails
First	Heads	**Sixth**	Tails
Second	Heads	**Seventh**	Heads
Third	Tails	**Eighth**	Tails
Fourth	Heads	**Ninth**	Heads
Fifth	Tails	**Tenth**	Heads

i) Before starting, how likely was Shauna to flip a tail? _____

ii) Before starting, how likely was Shauna to flip a head? _____

iii) How many heads did Shauna flip? _____

iv) How many tails did Shauna flip? _____

v) What percent of the flips were heads? _____

vi) What percent of the flips were tails? _____

vii) What is the ratio of heads to tails on Shauna's flips? _____

viii) Suppose the numbers were doubled. How many heads would Shauna have? _____

ix) Suppose the numbers were doubled. How many tails would Shauna have? _____

x) Which flips did Shauna get a "head" on the coin? _____

xi) Which flips did Shauna get a "tails" on the coin? _____

xii) What is Shauna most likely to flip next? _____

Reflection

Flip a coin 10 times and record your results in a chart. What do you notice about the probability of getting heads or tails?

Calendar

The calendars below show three different months.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

i) What day of the week is the 1st of the month? _____

ii) What patterns with number seven do you see? _____

iii) What patterns with number 9 do you see? _____

iv) Is the last day of the month the same as the first? _____

v) What day of the week will the 1st of the next month be? _____

vi) What day of the week is the 17th? _____

vii) Can you predict what day the beginning of the second next month will start with? How? _____

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

viii) What was the last day in the previous month? _____

ix) What is the same about both months? Explain. _____

x) What is different about the months shown? Explain. _____

xi) Are there any other months in the year that would have the same patterns? Why or why not? _____

xii) If you skip count by four, how many days would that be? _____

xiii) If you skip count by two, how many days would that be? _____