Probability & Statistics

Scorer	CU	PS	V	C	Acc

Name _____

Date _____

Teacher _____

❑ Exceeds ❑ Meets ❑ Does Not Yet Meet ❑ On-Demand ❑ Revised/Redone ❑ Modified

Comments: _____

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(Probability/Statistics)

Plants in the Window

Ms. Hartman is arranging plants on a windowsill. She has a violet, a cactus, a fern and an ivy plant. How many different arrangements can she make using these four plants in a single row? Explain your answer.

Scorer	CU	PS	V	C	Acc

Name _____

Date _____

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Comments: _____

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(Probability/Statistics)

Skittle Riddle

Emily bought 5 bags of Skittles. She decided to count the purple candies. This is what she saw when she was done counting.

If Emily were to open another bag of Skittles, about how many purple candies, on **<u>average</u>**, would you expect in the bag? Explain your answer and your thinking.

Bag 1
15
Purple

Bag 2
8
Purple

Bag 3
7
Purple

Bag 4
7
Purple

Bag 5
3
Purple

Scorer	CU	PS	V	C	Acc

Name _____

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Comments: _____

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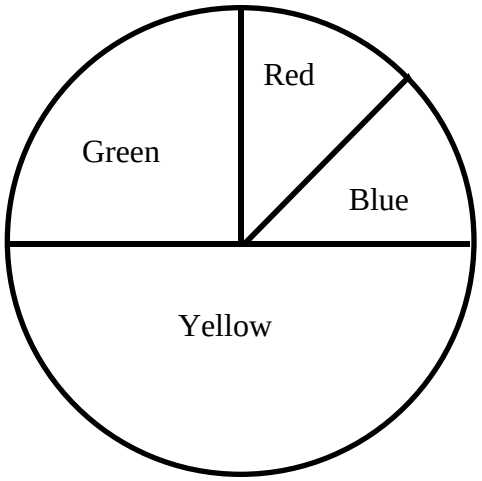
(Probability/Statistics)

The Spinner

Our class had a spinner that looked like this:



Three groups used the spinner and spun it 40 times each. Make a chart showing the number of times they are likely to land on each color. Explain your answer(s) and your thinking.

4P03

Scorer	CU	PS	V	C	Acc

Name _____

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❑ Exceeds ❑ Meets ❑ Does Not Yet Meet ❑ On-Demand ❑ Revised/Redone ❑ Modified

Comments: _____

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(Probability/Statistics)

Suzanne's Marbles

Little Suzanne has a bag of marbles. The contents of her bag are shown in the table below. If Suzanne reaches into her bag without looking and pulls out just one marble, what are the chances it will be a <u>blue</u> one? Explain your answer and your thinking.

Marble Colors	Number of Marbles
Red	11
Green	14
Blue	8
Yellow	7

Scorer	CU	PS	V	C	Acc

Name _____

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Teacher _____

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Comments: _____

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(Probability/Statistics)

Correct Change

Anthony went to the county fair. He saw a vending machine that gives chances to win baseball cards. It costs $0.50 to play. The machine takes correct change only by using quarters, dimes and nickels. How many different combinations of coins could Anthony use to get the baseball card?

Explain your answer(s) and your thinking.

Scorer	CU	PS	V	C	Acc

Name _____

Date _____

Teacher _____

❑ Exceeds ❑ Meets ❑ Does Not Yet Meet ❑ On-Demand ❑ Revised/Redone ❑ Modified

Comments: _____

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(Probability/Statistics)

The Ice Cream Shop

The customers of Art Vandelay's Ice Cream Shop may select from one of three flavors of non-fat ice cream. The may choose one of four toppings to put on their ice cream. How many one flavor/one topping combinations are possible at Art Vandelay's? Explain your answer and your thinking.

Scorer	CU	PS	V	C	Acc

Name _____

Date _____

Teacher _____

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(Probability/Statistics)

The Sub Sandwich Shop

Mary is hungry and walks into Schecky's Sub Sandwich Shop, which has a limited selection. Mary may select one of two types of bread: wheat or rye. She also has a choice of three different meats (beef, ham, pastrami), and three different cheeses (Cheddar, Swiss, Jack). If Mary can choose only one type of bread, one type of meat and one type of cheese for the sandwich she orders, how many different possible sandwich combinations can she create? Explain your answer and your thinking.

Scorer	CU	PS	V	C	Acc

Name _____

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Teacher _____

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Comments: _____

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(Probability/Statistics)

Bags of Peanuts

The fourth graders in Mrs. Walker's class bought some peanuts that come in small bags. Each student in the class reported how many peanuts were in his or her bag. Here are the numbers each student reported:

Number of Peanuts in a Bag

14 17 15 16 16 18 21 13 15 14 15
15 16 17 17 19 17 16 19 15 19

What is the average (mean) number of peanuts in a bag? Explain your answer(s) and your thinking.

Scorer	CU	PS	V	C	Acc

Name _____

Date _____

Teacher_____

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(Probability/Statistics)

Lenny's Dice

Lenny has two regular dice (1-6). When he rolls them together, what are his chances of rolling a total of seven or more? Explain your answer and your thinking.