

**Mathematician Presentation:** Research a famous mathematician and their contributions to math. Present your findings in a creative way, such as an oral presentation with visual aids, Powerpoint presentation, performing a skit, etc. \*See Mrs. Kennedy to schedule a time to give your presentation.\* (5 pts.)

**Current Events:** Locate a newspaper/magazine article that relates math to current events anywhere in the world. Turn in a written paragraph that summarizes the article in your own words with the actual article attached. (3 pts.)

**Write a Song:** Pick any topic that we are doing in math, write a song about it, and perform it for the class. (5 pts.)

Get a menu from a restaurant and have your family decide what they want to eat. Add up all the items. We are going to pretend that tax is already included in the prices. You pay the waiter with a \$100 bill. What is your change? If you don't have enough,

Million dollar project: You are given \$1,000,000.00 to spend. You need to spend every penny and document what you spend each penny on. You need to buy at least 20 different items. You need to record your purchases. You also need to handwrite your purchases and handwriting your subtraction. (NO SPREADSHEET OR EXCEL TO USE)

3pts.

### Basketball Camp

Kristin won a 7-day scholarship worth \$1000 to the Hot Shot Basketball Camp, but she will have to make some decisions about how to spend the money. Round trip travel expenses to the camp are \$335 by air or \$125 by train. At the camp she must choose between a week of individual instruction at \$60 per day or a week of group instruction at \$40 per day. Kristen's food and other living expenses are fixed at \$45 per day. If she cannot add more money to the scholarship award, what are all the possible choices of travel and instruction plans that Kristen could afford to make?

Decide how you would recommend that Kristen spend her award, and write a 1-2 page letter to her explaining your thinking.

	Novice	Apprentice	Practitioner	Expert
Computational Accuracy	No calculations were included or calculations included more than 3	Calculations are included but there are 1-2 errors	Calculations are included with no errors	Calculations are included plus included calculations for other possible options
Letter of Explanation	Explanation does not contain the three components of answering an open-ended question.	Explanation contains the three components to answering an open-ended questions but is hard to follow.	Explanation contains the three components to answering an open-ended questions and is easy to follow.	All practitioner plus the explanation reveals understanding of trade-offs.

## Extra Credit Math Survey Project

Up to 5 points

### Requirements:

- Survey must have at least 5 possible choices that include numerical data. (ex: how many books do you read over the summer?)
- You must survey at least 50 people total.
- Please include the survey tally sheet on your display.
- You are responsible for creating 2 graphs on your display. One can be by hand and the other can be created electronically. Your choices are: line graph, bar graph, or circle graph.
- Include a description and explanation of your survey.
- Include an analysis of your data. If this was a sample, what can you assume about the population?
- Make sure all required pieces are labeled and identified on the graphs and on the display.
- Make it look professional and creative, like it belongs in a magazine or newspaper.



# The Division House



Follow the directions below to create your house. Write the equation for each problem. DISCARD your remainders.

First, draw the outline of your house. This outline should only include the body of your house and the roof.

**To find the Number of DOORS on your house:** Divide your age by the number of years you have been at your current school.

**To find the number of WINDOWS on your house:** Divide the day of the month you were born by the number of kids in your family

**To find the number of BRICKS on the front of your house:** Divide the first three numbers in the year you were born by your current age.

**To find the number of TREES in front of your house:** Divide the first two numbers in your phone number by the last number in your phone number.

**To find the number of APPLES on each of the trees in front of your house:** Divide the first two numbers of your address by the number of days until Friday.

**To find the STREET NUMBER of your house:** Divide your mom's age by your age.

**To find the number of CLOUDS above your house:** Divide the number of students in your class by your age.

**To find the number of RAINDROPS falling from the clouds:** Divide your area code by the number of years you have lived in your state.

**To find the number of STRANDS OF GRASS in front of your house:** Divide your school's street address number by the number of kids in your class.

**To find the number of FLOWERS in front of your house:** Divide the number of days in the current month by the number of people sitting at your desk or table group.

\*on an 12x18 inches paper would be nice.

Up to 4 points