



Jumping Through Journals



Day 1: For classwork, you are to work independently on each of the five journal prompts below.

Day 2: For homework, you are to continue working independently on reaching a solution to each of the five journal prompts below.

Day 3: For classwork, you will rotate through five different groups. During your group time, you will discuss your solutions and explain the mathematical process used to reach a correct solution.

For homework, you are to write up your solution to **ONE** of the five journal prompts. Your final written piece should have a clear introduction and conclusion along with a specific explanation of the mathematical process and how you achieved your solution. Make sure you check for spelling and grammar errors.

Journal #1- Dice

Batman invited Robin to play a game with two dice. They were to roll the dice and multiply the two numbers shown. If the product was even, Batman would get a point, and if the product was odd, Robin would get a point. Who was more likely to win the game?

Journal #2 - Choo Choo

A train is composed of two, three and four axle cars with an identical number of three-axle and four-axle cars. An axle is a rod that holds a pair of wheels of a train in place. If the total number of cars is 36 and the number of axles is 111, find the number of cars of each kind.

Journal #3 - Making Punch

Cary Academy Middle School Band is hosting a concert. The sixth-grade class is in charge of refreshments. One of the items to be served is punch. Mr. Monsour, dining services manager, has given the students four different recipes calling for sparkling water and cranberry juice.

Recipe A: 3 cups of cranberry juice and 2 cups of sparkling water

Recipe B: 5 cups of cranberry juice and 3 cups of sparkling water

Recipe C: 6 cups of cranberry juice and 4 cups of sparkling water

Recipe D: 1 cup of cranberry juice and 1 cup of sparkling water

If you want the punch to have the strongest cranberry flavor which recipe would you choose and why? Mr. Grush says that 120 cups of punch are needed. For your recipe, how many cups of cranberry juice and how many cups sparkling water are needed.

Journal #4 - Weighted Down

Look at the cartoon below and answer the following questions.

The Family Circus by Jeff Keane and Bil Keane



1. Billy weighs 65 pounds. After he puts on his uniform, the scale reads 72 pounds. How much does the uniform weigh?
2. What was the percent increase in Billy's weight (to the closest tenth)?
3. How many uniforms would it take to weigh more than Billy?
4. Billy's dad weighs 195 pounds. How much weight would his dad's uniform weigh if the ratio of uniform to body weight is the same for Billy and his dad?

Journal #5 - Chicken Problem

Find the mass of the three different (small, medium, large) chickens in the cartoon below.

