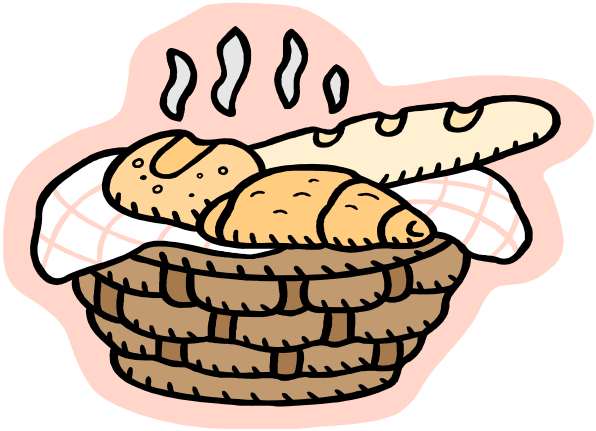
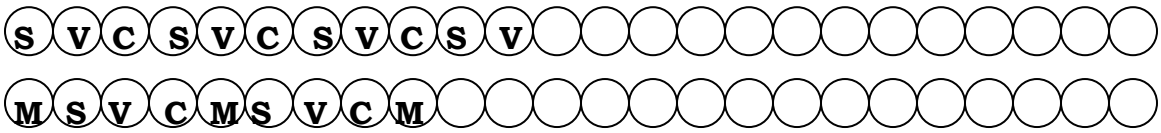
Using Least Common Multiples In Word Problems **Name:**



Cookies

There are two conveyer belts of cookies at the Oreo factory. The first belt has strawberry, vanilla, and chocolate cookies spread out every 2inches. The second belt has mint, strawberry, chocolate , vanilla spread out every 2inches. From an above view the machine looks like this,



Complete the diagram above, by counting the letter of the cookies flavor.

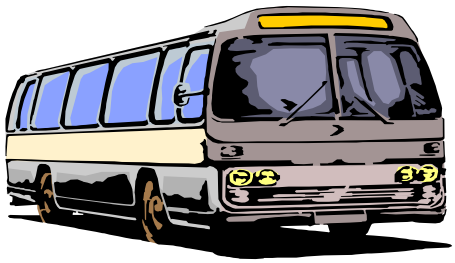
The factory makes a snack pack by wrapping the two corresponding cookies together,

Which numbered snack pack will have the same flavor cookie? _____.

What flavor will those two cookies be? _____.

Explain an easier way to get the number of the first package that will have the same flavor for both cookies? _____
_____.

Ride



I walked outside of the hotel to get a ride in the morning. The cab came at 8:00, 8:15, and 8:30. The bus came at 8:00, 8:12, and 8:24. If neither changes their rate of speed what is the first time they will be together in front of my hotel? _____.

Complete the chart below to help find the answer.

Taxi times:	8:00	8:15	8:30	8:45	9:00	9:15				
Bus times:	8:00	8:12	8:24	8:36	8:48					

Is there a faster way to find what time they will be arranging together at the hotel?_____.

Explain:_____.

To find a time when they both meet, you cold just multiply 12 and 15. They would arrive together at 8:00 a.m. plus 180 minutes, Why is 11:00 a.m. not the "first" time ?_____
_____.

On Sundays the situation changes so that the taxi arrives every 12 minutes, and the bus every 18. what is the first time after 8:00am they will meet ?_____.

Would it have been longer to make and complete a chart ? _____.

On Christmas day the schedule changes again. The taxi arranges every 18 minutes and the bus every 42 minutes. What is the first time they will meet in front of the hotel after 8:00 a.m. ? _____.

Don't forget 100 minutes is converted to time as 1hr and 40minutes

Would it have been better to make a chart? _____.
Why or why not ? _____
_____.

Father of the Bride

Steve Martin, in “Father of the bride” notices hotdogs come in packs of 8 and buns in pack of 10. If you want to have one bun for one dog, what is the least amount you can buy ? _____.

How many packages of bins is this ? _____.

How many packages of dogs is this ? _____.

What is the LCM of 8 and 10 ? _____.

If Steve is having 132 people at the party, and each will eat exactly one entry, what’s the least amount he can buy ? _____.

Cabins in the Woods

The girls have six campers to a cabin. The guys have eight campers to a cabin. To plan for the Friday night camp dance, the counselors are trying to figure out how many of each cabin to invite, so every camper will have a dancing partner.

How many guys cabins are invited? _____.

How many girls cabins are invited? _____.

How many total coupons attended ? _____.

There are six kinds of pizzas (cheese, pepperoni, mushrooms, meat lovers, vegetarian, stuffed crust), four varieties of soda (diet, sprite, Pepsi, coke), and five types of desserts (cake, pies, ice cream, pudding, Jell-O).

If these items are shelved in this order, so that a worker can grab one of each, his first customer of the day will get _____.

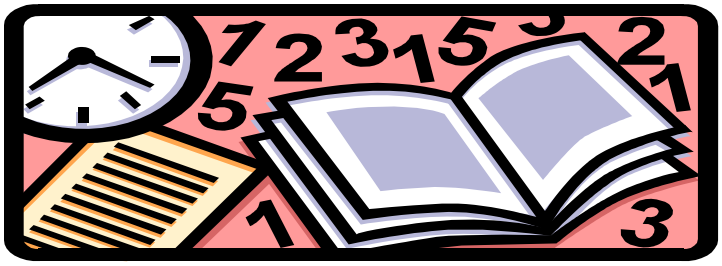
What will his second customer will receive ? _____.

What will his seventh customer will receive ? _____.

What numbered customer will get the same order as the first customer ?_____

What is the least common multiple of 6, 4, and 5? _____.

This is only a test.



A teacher has a stack of colored paper collated in this order; red, yellow, pink, and orange. She has 3 test forms (A, B and C). Form A is on the first red, form B is on the second yellow, and form C is on the third color, and form A is on the fourth color. The forms repeat themselves every 3rd time.

What color is this first form A on ? _____.

What color is the second form A on ? _____.

What color and form will the (12 plus 1) 13th test be ? _____.

What is the LCM of 3 (forms) and 4 (colors) ? _____.

How many form A's will be on red paper if 58 test are handed out?_____.