

1. Alejandro and Jean are distributing erasers and pencils to the art class. There are 63 erasers and 72 pencils. Each student receives the same number of pencils and the same number of erasers, and no supplies are left over. What is the greatest number of students in the class?
2. A video game has three villains who appear on screen at different intervals. One villain appears every 5 seconds, a second villain appears every 10 seconds, and a third villain appears every 16 seconds. How much time passes between occasions when all three villains appear at the same time?
3. An "A" train leaves a subway station every 12 minutes. An "E" train leaves every 9 minutes. If both trains just left the station on parallel tracks, when will both leave the station together again?
4. Starting today (day 1) Lee will walk his dog Fido every 3rd day and his dog Fifi every 5th Day. On which day will Lee first walk both dogs together?
5. Mrs. Davis is sewing vests. She has 16 Green Buttons and 24 yellow buttons. Each vest will have the same number of green buttons. What is the greatest number of vests Mrs. Davis can make using all of the buttons?
6. A Baker has 27 wheat bagels and 36 Plain Bagels that will be divided into boxes. Each Box must have the same number of wheat bagels and the same number of plain bagels. What is the greatest number of boxes the baker make using all of the bagels?

7. For the next 100 days, Shannon will be training for a biathlon. She will swim every 6 days and bicycle every 8 days. On what days will she both swim and bicycle?

8. A store is holding a grand opening promotion. Every 3rd customer receives a free key chain and every 4th customer receives a free magnet. Which customer will be the first to receive both a key chain and a magnet?

9. Lola is putting appetizers on plates. She has 63 meatballs and 84 cheese cubes. She wants both kinds of food on each plate, and each plate must have the same number of meatballs and the same number of cheese cubes. What is the greatest number of plates she can make using all of the appetizers?

10. The Delta High School marching band has 54 members. The Swanton High School marching band has 90 members. The bands are going to march in a parade together. The director wants to arrange the bands into the same number of rows. What is the greatest number of rows in which the two bands can be arranged?

Use the table for problems 11 and 12.

Train Schedule

Train	Arrives Every
Red Line	8 minutes
Blue Line	10 minutes
Yellow Line	12 minutes

11. The red line and the blue line trains just arrived at the station. When will they next arrive at the station at the same time? In _____ minutes

12. All three trains just arrived at the station. When will they next all arrive at the station at the same time? In _____ minutes