Lesson 9- G.C.F. and L.C.M in Word Problems

Words to Know for G.C.F: greatest, biggest most

Tricks/ Words to know for L.C.M. any question having to do with time

every, 1st, 2nd, 3rd..., same, time, again

Examples:

1) John puts out the garbage every two days and vacuums every five days. On October 1st, he did both of these chores. What will be the date of the next time he does both chores?

LCM (2,5)

list 2, 4, 6, 8, 10
5, 10

Oct 1st → oct 11th

2) On the track and field day at Centennial Regional High School, students were in different teams and named after a different color. The red group had 32 students, the blue group had 48 students and the green group had 64. Every group member participated in a track event, but color mixing was not allowed on any of the teams.

What is the greatest number of teams we can make?

GCF

32 → 4, 8 → 2, 2, 2, 4 → 2, 2

48 → 4, 12 → 2, 2, 3, 4 → 2, 2

64 = 2^6

2 · 2 · 2 · 2 · 2 · 2

2^4 = 16 teams

WB P 32
P 34