Solve in your notebook sheets:

1. Divide with or without a remainder:

215 : 7   995 : 61   1234567 : 123

2. In some remote village many years ago villagers tamed dragons. They even started to breed them. Somehow on a weekend day the villages had 2 eggs less hatching then on a week day. How many dragons have been hatched on a week day and on a weekend day if within one full week they added 80 dragons to their dragon flock?

Write an appropriate equation to solve this problem!

3. Plot points $A(-1, 8)$, $B(6,1)$, $C(6,6)$, and $D(-6,-2)$ to find coordinates of point $F = AB \cap CD$.

4. Two bells ring together at 10:45 A.M. One bell rings every 9 minutes and the other every 12 minutes. When will they next ring together?

5. What is the smallest number which is divisible by 2, 3, and 4?

Solve in this handout

6. In a 4-digit number **A7A9** symbol "A" stands for some digit. This number is divisible by 9. Which digit does A stand for?

7. The remainder of 1932 : 17 is 11; the remainder of 261 : 17 is 6. Can you tell **without calculations** if 1932 + 261 is divisible by 17?

Explain: _____

_____

8. Find the LCM (Least Common Multiple) and GCF (Greatest Common Divisor) of the following numbers …
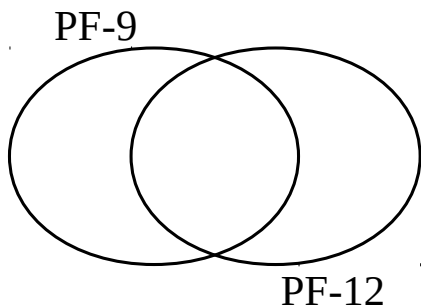
a). … 9 and 12;   b). … 16 and 12;

9 = _____   16 = _____

12 = _____   12 = _____

PF-9

PF-12

LCM(9,12) = _____   LCM(16,12) = _____

GCF(9,12) = _____   GCF(16,12) = _____

c). … 24 and 8;   d). … 28 and 30

24 = _____   28 = _____

8 = _____   30 = _____

LCM(24,8) = _____   LCM(28,30) = _____

GCF(24,8) = _____   GCF(28,30) = _____

9*. There is a bag that contains 70 apples or less. Each time we try dividing these apples evenly among 2, 3, or 4 people there is an apple left. However, these apples can be evenly divided among 5 people. How many apples are there in a bag?