

Solve in your notebook:

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 than 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;

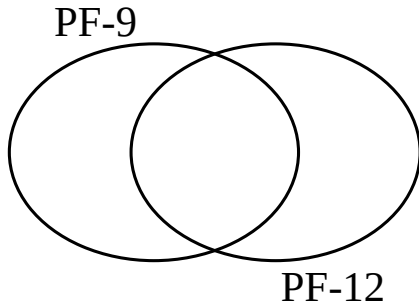
$$9 = \underline{\hspace{2cm}}$$

$$12 = \underline{\hspace{2cm}}$$

b). ... 16 and 12;

$$16 = \underline{\hspace{2cm}}$$

$$12 = \underline{\hspace{2cm}}$$



$$\text{LCM}(9,12) = \underline{\hspace{2cm}}$$

$$\text{GCF}(9,12) = \underline{\hspace{2cm}}$$

$$\text{LCM}(16,12) = \underline{\hspace{2cm}}$$

$$\text{GCF}(16,12) = \underline{\hspace{2cm}}$$

c). ... 24 and 8;

$$24 = \underline{\hspace{2cm}}$$

$$8 = \underline{\hspace{2cm}}$$

d). ... 28 and 30

$$28 = \underline{\hspace{2cm}}$$

$$30 = \underline{\hspace{2cm}}$$

$$\text{LCM}(24,8) = \underline{\hspace{2cm}}$$

$$\text{GCF}(24,8) = \underline{\hspace{2cm}}$$

$$\text{LCM}(28,30) = \underline{\hspace{2cm}}$$

$$\text{GCF}(28,30) = \underline{\hspace{2cm}}$$

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?