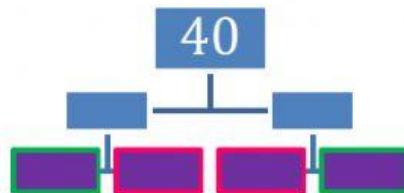
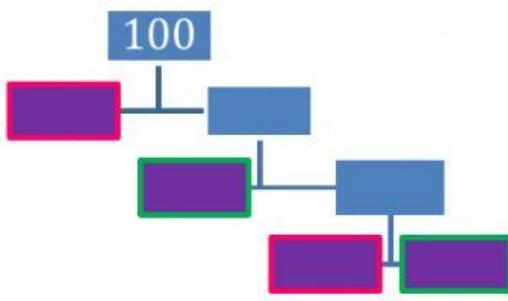


Complete the following table. (5 points)

Number	Factors	Prime or Composite
33		
42		
16		
23		
51		
63		

Write the prime factorization of each number using exponents. (4 points)



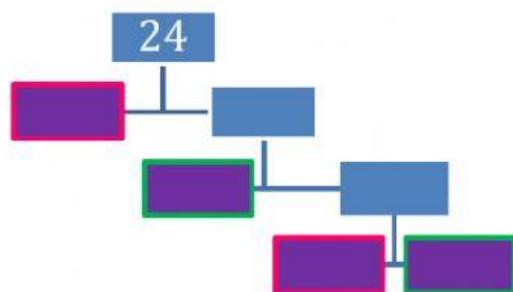
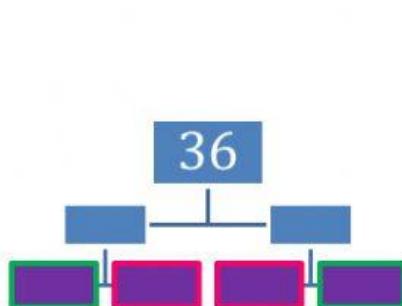
$$140 = \underline{\hspace{2cm}}$$

$$72 = \underline{\hspace{2cm}}$$

Find the GCF and LCM by using the LISTING METHOD. Show your work. (4 points)

14 _____	14 _____
35 _____	35 _____
GCF of 14 and 35= _____	LCM of 14 and 35= _____

Prime factorize to find the LCM and GCF of the following numbers. (4 points)



$$36 = \underline{\hspace{2cm}}$$

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

$$\text{GCF of } 36 \text{ and } 24 = \underline{\hspace{2cm}}$$

$$\text{LCM of } 36 \text{ and } 24 = \underline{\hspace{2cm}}$$

Solve. (8 points)

$$7 + 3^3 \div 3 - 2 = \underline{\hspace{2cm}}$$

$$3 \times 12 - (8 + 2) = \underline{\hspace{2cm}}$$

$$(100 \times 5) - 200 + 10 = \underline{\hspace{2cm}}$$

$$(1+4) - (3-2)^9 = \underline{\hspace{2cm}}$$

Solve the following problems. Show your work. (4 points)

Mohammad says that the prime factorization of $144 = 3 \times 3 \times 16$. Is he right or not? Explain.

The owner of a supermarket receives 15 crates of 54 cans of peas each. He sells 325 cans. How many cans does he still have?
