Name: _____

Date: _____ Score: _____ / _____
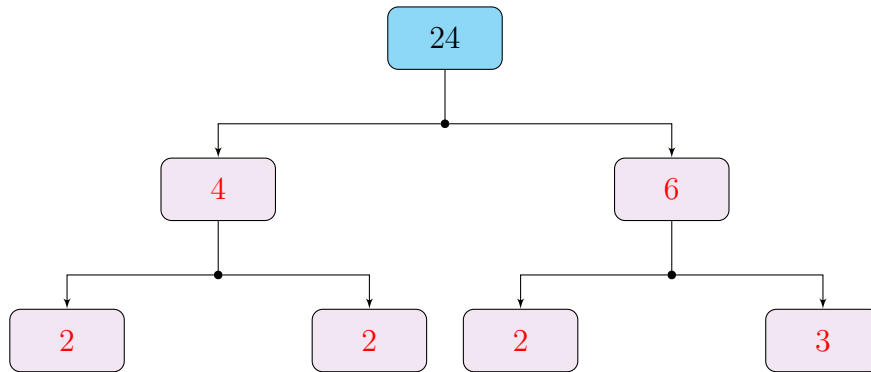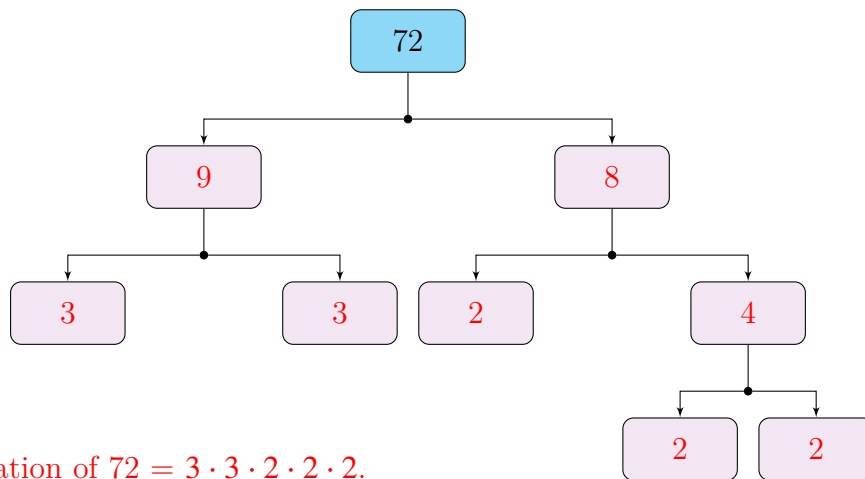
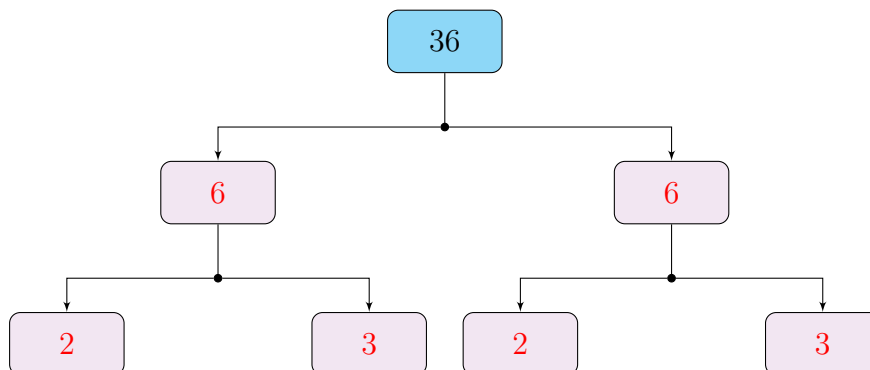**Problem 1:** Find all the prime numbers (factors) for number 24.

The prime factors of 24 are $2 \times 2 \times 2 \times 3$.

Problem 2: Find all the prime numbers (factors) for number 72.

The prime factorization of $72 = 3 \cdot 3 \cdot 2 \cdot 2 \cdot 2$.

Problem 3: Find all the prime numbers (factors) for number 36.

The prime factorization of 36 is $2 \times 2 \times 3 \times 3$.

Problem 4: Split numbers into prime factors.

a)

140	2
70	2
35	5
7	7
1	

b)

125	5
25	5
5	5
1	

c)

156	2
78	2
39	3
13	13
1	

d)

144	2
72	2
36	2
18	2
9	3
3	3
1	

e)

156	2
78	2
39	3
13	13
1	

f)

130	2
65	5
13	13
1	

g)

136	2
68	2
34	2
17	17
1	

h)

76	2
38	2
19	19
1	

i)

102	2
51	3
17	17
1	

j)

90	2
45	3
15	3
5	5
1	

k)

120	2
60	2
30	2
15	3
5	5
1	

l)

156	2
78	2
39	3
13	13
1	