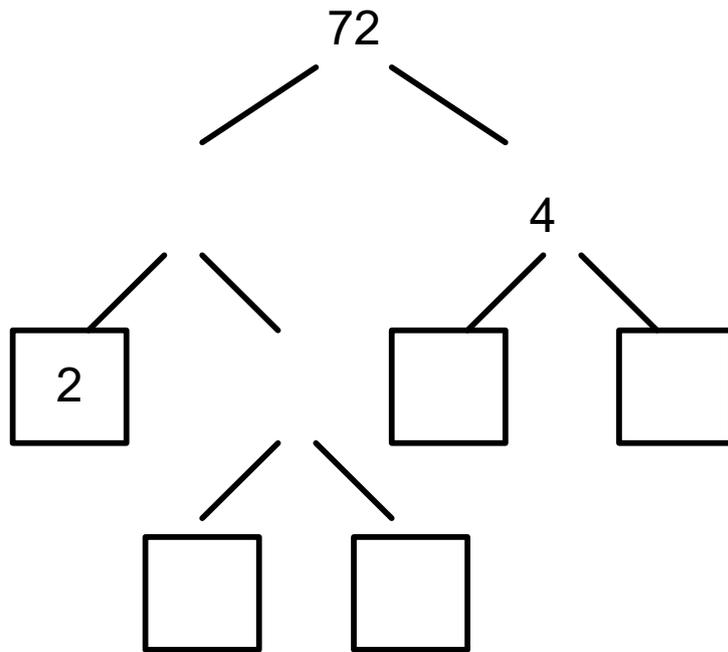


First Name	Surname
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Assessment: Product of Prime Factors, LCM and HCF

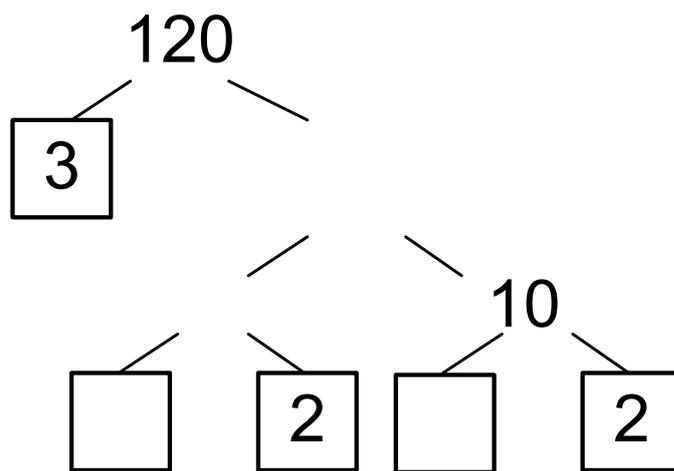
1. Complete the following factor trees.

a.



(2)

b.



(1)

2. Express the following numbers as a product of their prime factors. (3)

a. 188

b. 360 (3)

3. Find the HCF(85, 510). (4)

4. Find the LCM(12, 20). (2)

5. Two integers are given below.

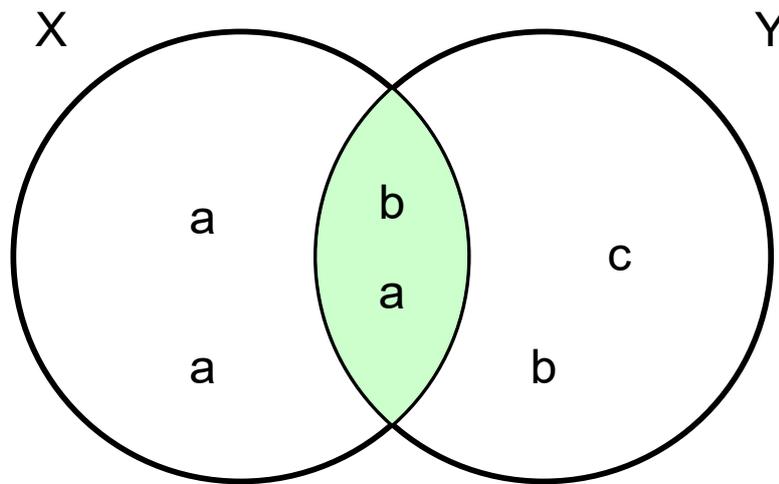
$$A = 2^3 \times 3^5 \times 7$$

$$B = 2^5 \times 3 \times 7^2$$

a. Calculate the value of the HCF (A,B). (2)

b. Calculate the value of the LCM(A,B). (3)

6. The prime factors of two integers, X and Y have been placed on the following Venn diagram.



a What is the HCF(X,Y)? (2)

b What is the LCM (X,Y)? (2)

c What is the product of X and Y? (2)

d What is the value of  $\frac{X}{Y}$ ? (2)