**Harder HCF and LCM Problems**

(a) The HCF of $a$ and $40$ is $10$. The LCM of $a$ and $20$ is $280$. Find the value of $a$.

(b) The HCF of $b$ and $24$ is $12$. The LCM of $b$ and $24$ is $120$. Find the value of $b$.

(c) The HCF of $c$ and $54$ is $18$. The LCM of $c$ and $54$ is $378$. Find the value of $c$.

(d) The HCF of $d$ and $44$ is $22$. The LCM of $d$ and $44$ is $660$. Find the value of $d$.

(a) The HCF of two numbers is $8$. The LCM of the same two numbers is $440$. Find a possible pair of numbers.

(b) The HCF of two numbers is $21$. The LCM of the same two numbers is $252$. Find two possible pairs of numbers.

(c) The HCF of two numbers is $15$. The LCM of the same two numbers is $1650$. Find three possible pairs of numbers.

(a) The HCF of two numbers is $6$. The LCM of the same two numbers is a multiple of $21$. Find a possible pair of numbers.

(b) The HCF of two numbers is $10$. The LCM of the same two numbers is a multiple of $35$. Find two possible pairs of numbers.

(a) The HCF of $12$, $42$ and $x$ is $3$. The LCM of $12$, $42$ and $x$ is $420$. Find the value of $x$.

(b) The HCF of $50$, $x$ and $y$ is $5$. The LCM of $50$, $x$ and $y$ is $1050$. Find three possible pairs of values for $x$ and $y$.

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