# NUMBERS

# HCF AND LCM

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- **HCF if the highest common factor**
- **LCM is the lowest common multiple**

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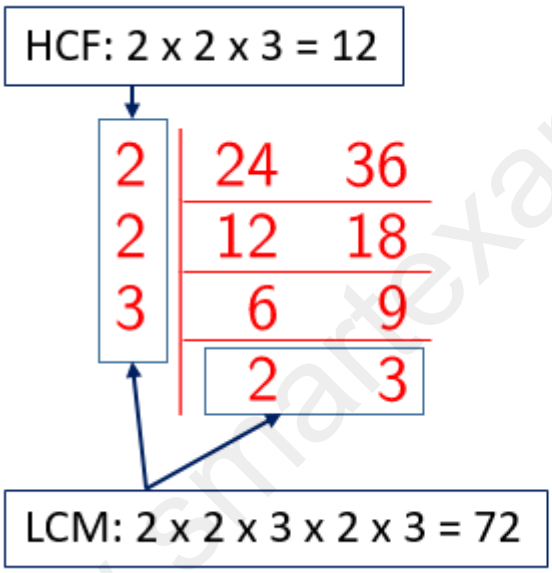
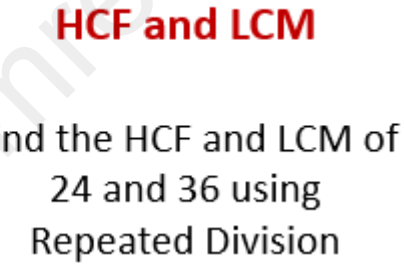
**HCF:**
**Method:**

- **Suppose you have to find the HCF and LCM of 24 and 36.**
- **Repeatedly divide the two given numbers till you cannot find any more common divisors. (The common divisors are also the factors as they leave a remainder equal to 0)**
- **The product of the common factors is the HCF.**




**LCM: = Common factors x uncommon factors**
**Common factors are: (2,3,3)**
**Uncommon factors are: (2,3)**
**Hence LCM= 2x3x3x2x3=72**

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**Solved Board paper questions:**

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**M/J/-P21-Q17**

**(b)** Find the lowest common multiple (LCM) of 30 and 45.

*Answer(b)* ..... [2]

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2 Find the lowest common multiple (LCM) of 24 and 32. **0580/22/F/M/15**

*Answer* ..... [2]

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**M/J/-P42-Q1C**

**(ii)** Work out the highest common factor (HCF) of 48 and 60.

*Answer(c)*(ii) ..... [2]

**(iii)** Work out the lowest common multiple (LCM) of 48 and 60.

*Answer(c)*(iii) ..... [2]

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