

Name: \_\_\_\_\_

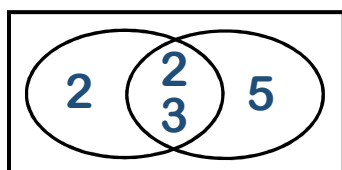


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a) Find the HCF and LCM of 12 and 30.

$$12 = 2^2 \times 3$$

$$30 = 2 \times 3 \times 5$$



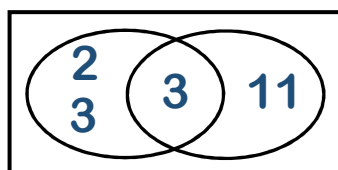
$$\text{HCF} = \underline{\quad 6 \quad}$$

$$\text{LCM} = \underline{\quad 60 \quad}$$

b) Find the HCF and LCM of 18 and 33.

$$18 = 2 \times 3^2$$

$$33 = 3 \times 11$$



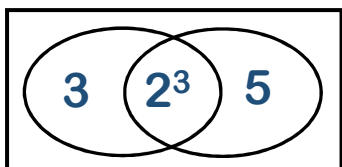
$$\text{HCF} = \underline{\quad 3 \quad}$$

$$\text{LCM} = \underline{\quad 198 \quad}$$

c) Find the HCF and LCM of 24 and 40.

$$24 = 2^3 \times 3$$

$$40 = 2^3 \times 5$$



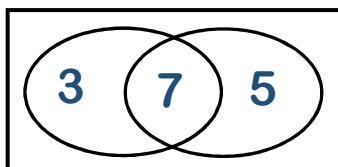
$$\text{HCF} = \underline{\quad 8 \quad}$$

$$\text{LCM} = \underline{\quad 120 \quad}$$

d) Find the HCF and LCM of 21 and 35.

$$21 = 3 \times 7$$

$$35 = 5 \times 7$$



$$\text{HCF} = \underline{\quad 7 \quad}$$

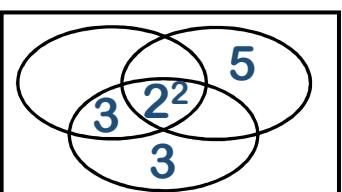
$$\text{LCM} = \underline{\quad 105 \quad}$$

e) Find the HCF and LCM of 12, 20 and 36.

$$12 = 2^2 \times 3$$

$$20 = 2^2 \times 5$$

$$36 = 2^2 \times 3^2$$



$$\text{HCF} = \underline{\quad 4 \quad}$$

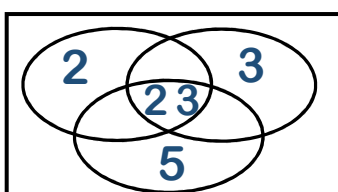
$$\text{LCM} = \underline{\quad 180 \quad}$$

f) Find the HCF and LCM of 12, 18 and 30.

$$12 = 2^2 \times 3$$

$$18 = 2 \times 3^2$$

$$30 = 2 \times 3 \times 5$$



$$\text{HCF} = \underline{\quad 6 \quad}$$

$$\text{LCM} = \underline{\quad 180 \quad}$$

**Exam question:**

a) Write 36 as a product of prime factors in index form.

$$36 = 2^2 \times 3^2$$

b) Find the lowest common multiple of 36 and 20.

180

