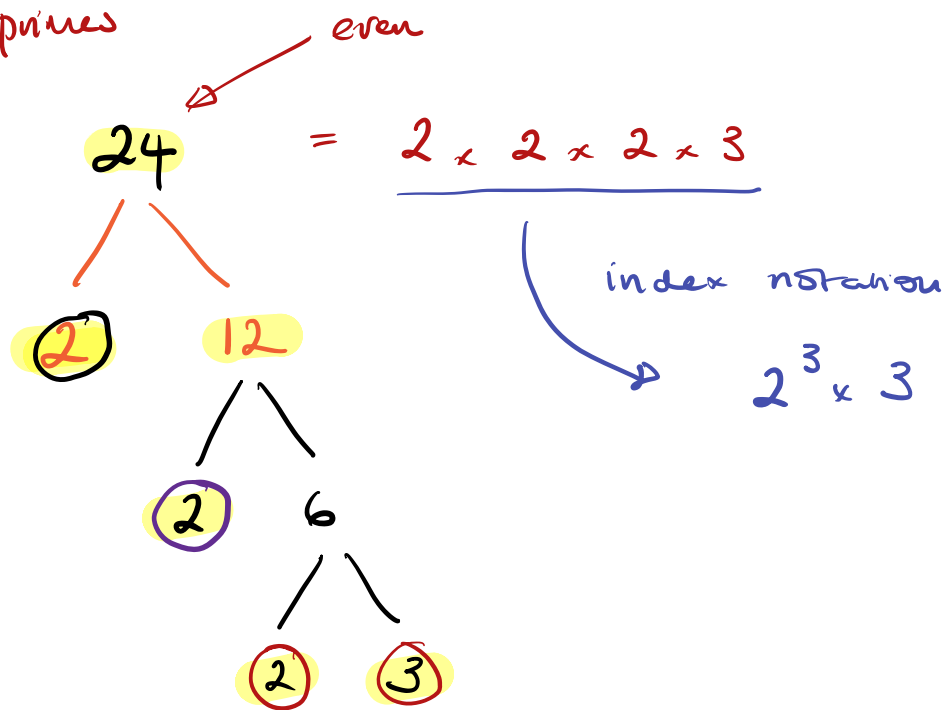
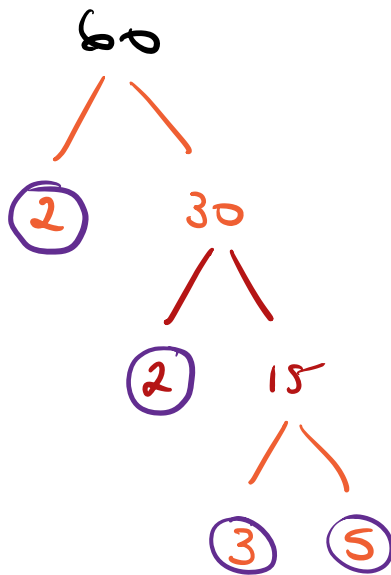


Product of primes



[2, 3, 5, 7, 11, 13, 17, 19]

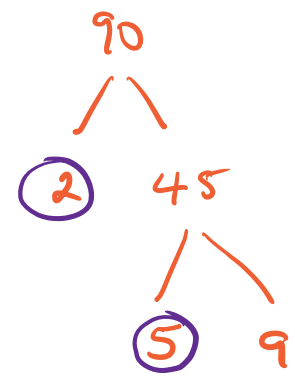
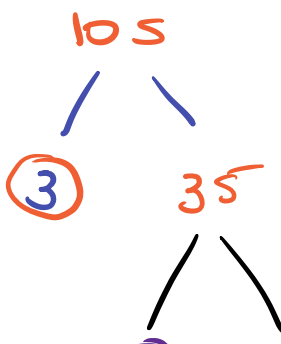
eg2



$$60 = 2 \times 2 \times 3 \times 5$$

$$\underline{2^2 \times 3 \times 5}$$

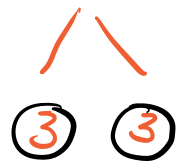
eg. LCM
HCF



$$3 \overline{) 105}$$

(5) (7)

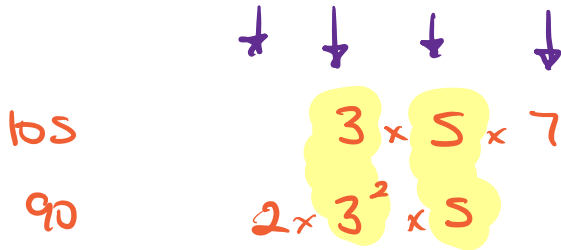
$$105 = \underline{3 \times 5 \times 7}$$



$$90 = 2 \times 3 \times 3 \times 5$$

$$= \underline{2 \times 3^2 \times 5}$$

HCF



$$3 \times 5 = 15 \text{ (HCF)}$$

LCM

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

$$\frac{2 \times 9}{18} \times \frac{5 \times 7}{35}$$

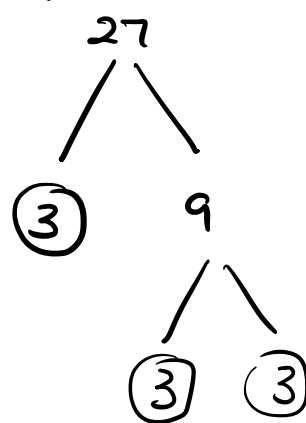
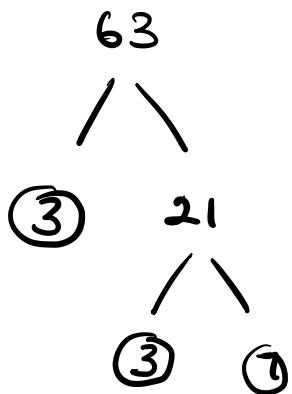
$$= 630$$

x	10	8
30	300	240
5	50	40

$$630$$

eg

63 and 27



$$\boxed{63} = 3 \times 3 \times 7$$

$$3^2 \times 7$$

$$\boxed{27} = 3 \times 3 \times 3$$

$$= 3^3$$

$$63 : \quad 3^2 \times 7$$

$$27 : \quad 3^3$$

HCF $3^2 = 9$

LCM $3^3 \times 7 = \underline{\underline{189}}$

$$\begin{array}{r} 27 \\ 7 \\ \hline 189 \\ 4 \end{array}$$

Divisibility tests

A number is divisible by:

- 2 if it ends with the digit 0, 2, 4, 6 or 8

For example: 384 ends with a 4 and is an even number

- 3 if the sum of all the digits is divisible by 3

For example: 162 where $1 + 6 + 2 = 9$, which is divisible by 3

- 4 if the number formed by the last two digits is divisible by 4

For example: 148 where 48 is divisible by 4

- 5 if the last digit is a 0 or 5

For example: 145 or 2090

- 6 if it is divisible by both 2 and 3

For example: 456 where 6 is even and $4 + 5 + 6 = 15$, which is divisible by 3